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MANAGERS DESIGNERS/CONSULTANTS

SUPERFUND TECHNICAL ASSESSMENT AND RESPONSE TEAM
EPA CONTRACT 68-W5-0019

START-02-F-04510

TRANSMITTAL MEMO

To: **Dwayne Harrington, OSC**
Response and Prevention Branch, U.S. EPA Region II

From: David Rosenberg, Data Reviewer
START Region II

Subject: West Mahopac Site
Putnam County, New York

Data Validation Assessment

Date: **July 26, 2000**

The purpose of this memo is to transmit the following information:

Data validation results for the following parameters:

TCL- VOA & BNA	19 samples

Matrices and Number of Samples

Water	19 samples
Sampling dates:	June 8, 2000

The final data assessment narrative and original analytical data package are attached.

cc: START PM	Michael Garibaldi
START FILE TDD #:	02-99-10-0011E
TDD #:	02-0002-0009
PCS #:	6782

388543

U.S. ENVIRONMENTAL PROTECTION AGENCY

MEMORANDUM

DATE: **July 26, 2000**

TO: **Dwayne Harrington, OSC**
USEPA Region II

FROM: **David Rosenberg**
START Data Review Team

SUBJECT: **QA/QC Compliance Review Summary**

As requested quality control and performance measures for the data packages noted have been examined and compared to EPA standards for compliance. Measures for the following general areas were evaluated as applicable:

Data Completeness	Blanks
Spectra Matching Quality	DFTPP and BFB Tuning
Surrogate Spikes	Chromatography
Matrix Spikes/Duplicates	Holding Times
Calibration	Compound ID (HSL, TIC)

Any statistical measures used to support the following conclusions are attached so that the review may be reviewed by others.

Summary of Results

	I VOA	II BNA	III PEST/PCB	IV HERB
Acceptable as Submitted				
Acceptable with Comments	X	X		
Unacceptable, Action Pending				
Unacceptable				

Data Reviewed by: D Rosenberg Date: July 26, 2000

Approved By: JM Sorra Date: 7/27/00

Area Code/Phone No.: (732) 225-6116

NARRATIVE

CASE No. 6782

SITE NAME: West Mahopac Site,

West Mahopac, Putnam County, New York

Laboratory Name: MITKEM

INTRODUCTION:

The laboratory's portion of this Case consisted of 19 drinking water samples collected on June 8, 2000. The samples were analyzed for BNA's and samples plus a trip blank for VOA's by method 524.2. No significant problems were found.

The laboratory reported No problem(s) with the receipt of these samples.

The evaluator has commented on the criteria specified under each fraction heading. All criteria have been assessed, but no discussion is given where the evaluator has determined that criteria were adequately performed or require no comment. Details relevant to these comments are given on the forms followed.

Evaluation by Fraction:

I. Volatile (VOAs) -

_Y_ Holding Time	_Y_ MS/MSD
_Y_ GC/MS Tuning	_Y_ Compound ID (HSL, TIC)
_Y_ Calibration, Initial	_Y_ Spectra Quality
_Y_ Calibration, Continuing	_Y_ Standards
_Y_ Blank	_Y_ Chromatography
_Y_ Surrogate Recovery	_Y_ Data Completeness
_Y_ Laboratory Fortified Blank	_Y_ Laboratory Storage Blank

Comments:

1. Refer to Data Assessment Narrative.

II. Base Neutral/Acids (BNAs) -

_Y_ Holding Time	_Y_ MS/MSD
_Y_ GC/MS Tuning	_Y_ Compound ID (HSL, TIC)
_Y_ Calibration, Initial	_Y_ Spectra Quality
_Y_ Calibration, Continuing	_Y_ Standards
_Y_ Blank	_Y_ Chromatography
_Y_ Surrogate Recovery	_Y_ Data Completeness

Comments:

1. Refer to Data Assessment Narrative.

I. **Functional Guidelines for Evaluating Organic Analysis**

CASE # 6782 **SDG #** _____
LAB: MITKEM **SITE: West Mahopac Site**

The current Functional Guidelines for evaluating organic data have been applied.

All data are valid and acceptable except those analytes which have been qualified with a "J" (estimated), "N" (presumptive evidence for the presence of the material), "U" (non-detects), "R" (unusable), or "JN" (presumptive evidence for the presence of the material at an estimated value). All action is detailed on the attached sheets.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant QC problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

Analytical data qualified as "JN" or "R" may not be used to demonstrate compliance with Toxicity Characteristic or Land Ban Regulations.

Reviewer's Signature: J Rosenberg **Date:** 7 / 26 / 2000

Verified By: _____ **Date:** ___ / ___ / 2000

On 8 June, 2000, START personnel collected drinking water samples from residences in West Mahopac, Putnam County, New York. A total of 19 samples were collected, including one (1) duplicate and one (1) trip blank, and were shipped to Mitkem Corp. labs for analysis by EPA Method 524.2 for low concentration VOAs and BNAs.

Client identification (ID) and laboratory ID numbers:

Client ID No.	Laboratory ID No.
230WS-IF	70853007
230WS-CF	70853008
230WS-EF	70853009
240WS-IF	70853016
240WS-CF	70853017
240WS-EF	70853019 *
244WS-CF	70853018 – duplicate of 240WS-CF
246WS-IF	70853004
246WS-CF	70853005
246WS-EF	70853006
247WS-IF	70853013
247WS-CF	70853014
247WS-EF	70853015
250WS-IF	70853010
250WS-CF	70853011
250WS-EF	70853012
005SR-IF	70853001
005SR-CF	70853002
005SR-EF	70853003
TB-01	70853020 – TRIP BLANK

*** = This sample was mislabeled by the lab as 244WS-EF.**

1. HOLDING TIMES:

The amount of an analyte in a sample can change with time due to chemical instability, degradation, volatilization, etc. If the specified holding time is exceeded, the data may not be valid. Those analytes detected in the samples whose holding time has been exceeded will be qualified as estimated, "J". The non-detects (sample quantitation limits) will be flagged as estimated, "J", or unusable, "R", if the holding times are grossly exceeded.

The following analytes in the samples shown were qualified because of holding time:

TCL Data

VOA - The following data were qualified as estimated "J" or rejected "R" due to exceeding holding time criteria:

Sample ID	Matrix	Date Sampled	Date Analyzed	Qualifier	#Compounds

No problems were found.

Note: If properly preserved, aqueous samples maintained at 4°C must be analyzed within fourteen (14) days of collection. If unpreserved, aqueous samples must be analyzed within seven (7) days for aromatic hydrocarbons. Soil/Solid samples must be analyzed within ten (10) days of collection.

BNA - The following data were qualified as estimated "J" or rejected "R" due to exceeding holding time criteria:

Sample ID	Matrix	Date Sampled	Date Extracted	Qualifier	# Compounds

No problems were found.

Note: Continuous extraction of water samples must be started within seven (7) days of the date of collection. Soil/Sediment/Solid samples must be extracted within seven (7) days of collection. Extracts must be analyzed within forty (40) days of extraction.

2. BLANK CONTAMINATION:

Quality Assurance (QA) blanks [i.e., method, trip, field or rinse blanks] are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Trip blanks measure cross-contamination of samples during shipment. Field and rinse

blanks measure cross-contamination of samples during field operations. If the concentration of the analyte is less than 5 times the blank contaminant level (10 times for common contaminants), the analytes are qualified as non-detects, "U". The following analytes in the samples shown were qualified with "U" for these reasons:
A) Method Blank Contamination

VOA - The following compounds were qualified as non-detected "U" in the associated samples due to method blank contamination:

Compound	Associated Samples
Methylene chloride	230WS-IF

VOA - The following TICs were rejected "R" in the indicated samples due to detection in the associated method blank:

TIC	Associated Method Blank	Associated Samples

No problems were found.

2. BLANK CONTAMINATION (continued):

A) Method Blank Contamination

BNA - The following compounds were qualified as non-detected "U" in the associated samples due to method blank contamination:

Compound	Associated Samples

No problems were found.

BNA - The following TICs were rejected "R" in the indicated samples due to detection in the associated method blank:

TIC	Associated Method Blank	Associated Samples

No problems were found.

2. BLANK CONTAMINATION (continued):

B) Field or Rinse Blank Contamination ("water blanks" or "distilled water blanks" are validated like any other sample)

VOA - The following compounds were qualified as non-detected "U" in the associated samples due to rinse blank contamination:

Compound	Associated Samples

No problems were found. No rinse blanks were taken

BNA - The following compounds were qualified as non-detected "U" in the associated samples due to rinse blank contamination:

Compound	Associated Samples

No problems were found. No rinse blanks were taken

C) Trip Blank Contamination

VOA - The following compounds were qualified as non-detected "U" in the associated samples due to trip blank contamination:

Compound	Associated Samples

No problems were found.

D) TIC Blank Contamination

VOA/BNA - The following TIC common laboratory contaminants were rejected "R" in the associated samples because the levels detected are either < 100 ug/L for aqueous samples or < 4000 ug/Kg for soil/sediment samples:

Fraction	TIC	Associated Samples

No problems were found.

VOA/BNA - The following TIC contaminants were rejected "R" in the indicated samples because these compounds are target TCL compounds also present in the associated volatile or semi-volatile fraction analyses:

Fraction	TIC	Samples

No problems were found.

Note: TIC compounds associated with a "best match" spectra and CAS number were qualified as presumptive evidence of a compound at an estimated value "JN" by the data reviewer. TICs not associated with a CAS number were qualified as estimated "J" by the data reviewer in the sample data.

3. MASS SPECTROMETER TUNING:

Tuning and performance criteria are established to ensure adequate mass resolution, proper identification of compounds, and to some degree, sufficient instrument sensitivity. These criteria are not sample specific. Instrument performance is determined using standard materials. Therefore, these criteria should be met in all circumstances. The tuning standard for volatile organics is bromofluorobenzene (BFB) and for semi-volatiles is decafluorotriphenyl-phosphine (DFTPP).

If the mass calibration is in error or missing, all associated data will be classified as unusable "R". The following samples shown were qualified with "R" because of tuning:

No problems were found.

4. CALIBRATION:

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of giving acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument is giving satisfactory daily performance.

Response Factor:

The response factor measures the instrument's response to specific chemical compounds. The response factor for the VOA/BNA Target Compound List (TCL) must be $\geq$ 0.05 in both the initial and continuing calibrations. A value $\leq$ 0.05 indicates a serious detection and quantitation problem (poor sensitivity). If the mean RRF of the initial calibration or the continuing calibration has a response factor $<$0.05 for any analyte, those analytes

detected in environmental samples will be qualified as estimated "J". All non-detects for those compounds will be rejected "R". The following analytes in the samples shown were qualified because of response factor:

Initial Calibration

VOA - The following compounds were either qualified as estimated "J" (positive values only) or rejected "R" (non-detected "U" values only) in the associated samples because the Initial Calibration Mean RRF value is < 0.05:

Compound	Qualifier	Associated Sample(s)

No problems were found.

BNA - The following compounds were either qualified as estimated "J" (positive values only) or rejected "R" (non-detected "U" values only) in the associated samples because the Initial Calibration Mean RRF value is < 0.05:

Compound	Qualifier	Associated Sample(s)

No problems were found.

Continuing Calibration

VOA - The following compounds were either qualified as estimated "J" (positive values only) or rejected "R" (non-detected "U" values only) in the associated samples because the Continuing Calibration RRF50 is < 0.05:

Compound	Qualifier	Associated Sample(s)

No problems were found.

BNA - The following compounds were either qualified as estimated "J" (positive values only) or rejected "R" (non-detected "U" values only) in the associated samples because the Continuing Calibration RRF50 is < 0.05:

Compound	Qualifier	Associated Sample(s)

No problems were found.

5. CALIBRATION:

PERCENT RELATIVE STANDARD DEVIATION (%RSD) AND PERCENT DIFFERENCE (%D):

Percent RSD is calculated from the initial calibration and is used to indicate the stability of the specific compound response factor over increasing concentration. Percent D compares the response factor of the continuing calibration check to the mean response factor (RRF) from the initial calibration. Percent D is a measure of the instrument's daily performance. Percent RSD must be < 30% and %D must be < 25%. A value outside of these QC limits indicates potential detection and quantitation errors. For these reasons, all positive results are flagged as estimated, "J"; and non-detects are flagged "UJ". If %RSD and/or %D grossly exceed QC criteria, non-detect data may be qualified "R".

For the PESTICIDE/PCB fraction, if %RSD exceeds 20% for all analytes except for the 2 surrogates (which must not exceed 30% RSD), qualify all associated positive results "J" and non-detects "UJ".

The following analytes in the samples shown were qualified for %RSD and %D:

Initial Calibration

VOA - Positive values of the following compounds were qualified as estimated "J" in the associated samples because the Initial Calibration %RSD is between 30-90% when the mean RRF is > 0.05:

Compound	Associated Sample(s)

No problems were found.

BNA - Positive values of the following compounds were qualified as estimated "J" in the associated samples because the Initial Calibration %RSD is between 30-90% when the mean RRF is > 0.05:

Compound	Associated Sample(s)

No problems were found.

Note: According to the SOW, 2,4-Dinitrophenol, 2,4,5-Trichlorophenol, 2-Nitroaniline, 3-Nitroaniline, 4-Nitroaniline, 4-Nitrophenol, 4,6-Dinitro-2-Methylphenol, and Pentachlorophenol only require a four-point initial calibration at 50, 80, 120, and 160 total nanograms because detection at < 50 nanograms per injection is difficult. Due to professional judgement, no action was taken with associated non-detected "U" sample data or positive results determined near the low end of the Initial Calibration curve sequence.

Continuing Calibration:

VOA - The following compounds were qualified as estimated "J" because the Continuing Calibration %D is between 25-90% when the RRF50 is > 0.05:

Compound	Associated Sample(s)

No problems were found.

Continuing Calibration (continued):

BNA - The following compounds were qualified as estimated "J" because the Continuing Calibration %D is between 25-90% when the RRF50 is > 0.05:

Compound	Associated Sample(s)

No problems were found.

6. SURROGATES/SYSTEM MONITORING COMPOUNDS (SMC):

All samples are spiked with surrogate/SMC compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. If the measured surrogate/SMC concentrations were outside contract specifications, qualifications were applied to the samples and analytes as shown below. The following analytes for the samples shown were qualified because of surrogate/SMC recovery:

VOA - The following compounds were either qualified as estimated "J" or rejected "R" due to surrogate recovery outside specified QC limits:

Surrogate	Recovery	Qualifier	Compounds	Sample(s)

No problems were found.

[1] Positive values only were qualified as estimated "J" in the associated samples.

BNA The following compounds were either qualified as estimated "J" or rejected "R" due to surrogate recovery outside specified QC limits:

Surrogate	Recovery	Qualifier	Compounds	Sample(s)

Base Neutrals

No problems were found.

Acids

No problems were found.

[1] Positive values only were qualified as estimated "J" in the associated samples.

Note: Data were qualified because either:
a) two (2) base-neutral and/or two (2) acid compounds have recoveries outside specified QC limits and above 10%, or
b)either one (1) base-neutral and/or one (1) acid compound has a percent recovery below 10%. If any surrogate in a fraction shows < 10% recovery, positive results are flagged as estimated "J" and negative results are flagged as unusable "R" in that fraction.

7. INTERNAL STANDARDS PERFORMANCE:

Internal standard (IS) performance criteria ensure that the GC/MS sensitivity and response are stable during every experimental run. The internal standard area count must not vary by more than a factor of 2 (-50% to 100%) from the associated continuing calibration standard. If the area count is outside the -50% to 100% range of the associated standard, then all of the positive results for compounds quantitated using that IS are qualified as estimated "J", and all non-detects as "UJ". If the IS area is > 25% (a severe loss of sensitivity) then all non-detects associated with that IS are qualified as "R" and all positive results for compounds quantitated using that IS are qualified as estimated "J".

The retention time of the internal standard must not vary more than ± 30 seconds from the associated continuing calibration standard. If an internal standard retention time varies by more than 30 seconds, the reviewer will use professional judgement to determine either partial or total rejection of the data for that sample fraction. The following analytes in the samples shown were qualified because of internal standard performance:

VOA The following compounds were either qualified as estimated "J" or rejected "R" in the associated samples due to exceeding Internal Standard (IS) QC criteria (within -50% to +100% of the Continuing Calibration 12-hour standard):

Internal Standard	Percent IS Area Count of the 12-Hour Standard	Qualifier	Total Analytes Qualified/Sample	Associated Sample(s)

No problems were found.

BNA - The following compounds were either qualified as estimated "J" or rejected "R" in the associated samples due to exceeding Internal Standard (IS) QC criteria (within -50% to + 100% of the Continuing Calibration 12-hour standard):

Internal Standard	Percent IS Area Count of the 12-Hour Standard	Qualifier	Total Analytes Qualified/Sample	Associated Sample(s)

No problems were found.

[1] Positive values only were qualified as estimated "J" in the indicated samples.

8. COMPOUND IDENTIFICATION:

A) VOLATILE AND SEMI-VOLATILE FRACTIONS:

TCL compounds are identified on the GC/MS by using the analyte's relative retention time (RRT) and by comparison to the ion spectra obtained from known standards. For the results to be a positive hit, the sample peak must be within ± 0.06 RRT units of the standard compound, and have an ion spectra which has a ratio of the primary and secondary m/e intensities within 20% of that in the standard compound. For the Tentatively Identified Compounds (TICs) the ion spectra must match accurately. In the cases where there is not an adequate ion spectrum match, the laboratory may have provided false positive identifications. The following analytes in the samples shown were qualified for compound identification:

The following compounds were qualified as estimated "J" in the indicated samples because they could not be chromatographically resolved:

Fraction	Compounds	Samples

No problems were found.

9. MATRIX SPIKE/SPIKE DUPLICATE (MS/MSD):

The MS/MSD data are generated to determine the long-term precision and accuracy of the analytical method in various matrices. The MS/MSD may be used in conjunction with other QC criteria for some additional qualification of the data. The following analytes, for the samples shown, were qualified because of MS/MSD:

VOA - The following sample data were either qualified as estimated "J" or rejected "R" due to exceeding duplicate spike recovery QC criteria:

Original Sample	Spike Recovery	Qualifier	Compound(s)

No problems were found.

[1] Positive values only were qualified as estimated "J" in the indicated samples.

BNA - The following sample data were either qualified as estimated "J" or rejected "R" due to exceeding duplicate spike recovery QC criteria:

Original Sample	Spike Recovery	Qualifier	Compound(s)

No problems were found.

[1] Positive values only were qualified as estimated "J" in the indicated samples.

Due to professional judgement, the following positive data were rejected "R" due to possible carryover from a previous sample analysis that contained the compound(s) at high concentration(s):

Fraction	Sample Compound	Sample Compound Concentration	Previous Sample Compound Concentration

No problems were found.

12. CONTRACT PROBLEMS/NON-COMPLIANCE:

No problems were found.

13. This package contain re-extraction, re-analysis or dilution results. Upon reviewing the QA results, the following Form I(s) are identified to be used:

VOA Fraction:

Use Sample(s)	Do Not Use Sample(s)
240WS-EF	240WS-EFDL
005SR-IF	005SR-IFDL

1 Due to professional judgement, data from the indicated sample will be used instead of data from the associated sample re-analysis and/or dilution analysis because overall QC criteria is better met in the original sample analysis.

SDG Narrative

Mitkem Corporation submits the enclosed data package in response to Roy F. Weston, Inc.'s project. Under this deliverable, analysis results are presented for twenty aqueous samples that were received on June 9, 2000. Analyses were performed per specifications in the project's contract and the chain of custody forms, following discussion with the client.

The following samples are submitted in this data package:

Client ID	Lab ID	Analysis	
005SR-IF	70853001	V, S	
005SR-CF	70853002	V, S	
005SR-EF	70853003	V, S	
246WS-IF	70853004	V, S	
246WS-CF	70853005	V, S	
246WS-EF	70853006	V, S	
230WS-IF	70853007	V, S	
230WS-CF	70853008	V, S	
230WS-EF	70853009	V, S	
250WS-IF	70853010	V, S	
250WS-CF	70853011	V, S	
250WS-EF	70853012	V, S	
247WS-IF	70853013	V, S	
247WS-CF	70853014	V, S	
247WS-EF	70853015	V, S	
240WS-IF	70853016	V, S	
240WS-CF	70853017	V, S	
244WS-CF	70853018	V, S	- duplicate of 240WS-CF
247WS-EF	70853019	V, S	
TB-01	70853020	V	- Trip blank
230WS-EFMS	70853021	V, S	
230WS-EFMSD	70853022	V, S	

V = Volatile Organics – 524.2
S = Semivolatiles – CLP Method (OLM04.2)

10. OTHER QC DATA OUT OF SPECIFICATION:

VOA - The following compounds were qualified as estimated "J" in the associated aqueous and/or soil/sediment field duplicate samples because the Relative Percent Difference (RPD) between the sample and field duplicate sample is > 50% for aqueous samples, or > 100% for soil/sediment samples:

Compound	Matrix	% RPD Associated Field Duplicate Samples

No problems were found.

BNA - The following compounds were qualified as estimated "J" in the associated aqueous and/or soil/sediment field duplicate samples because the Relative Percent Difference (RPD) between the sample and field duplicate sample is > 50% for aqueous samples, or > 100% for soil/sediment samples:

Compound	Matrix	% RPD Associated Field Duplicate Samples

No problems were found.

VOA - The following data were either qualified as estimated "J" or rejected "R" due to air bubbles in the VOA vial(s):

Sample(s)	Qualifier	# Compounds

No problems were found.

[1] Positive values only were qualified as estimated "J" in the indicated samples.

11. SYSTEM PERFORMANCE AND OVERALL ASSESSMENT:

Due to professional judgement, the following compounds were not transferred from the indicated dilution sample analyses to the undiluted sample analyses because the reported values of these compounds are either diluted out in the associated dilution sample analyses or are qualified as non-detected "U" due to blank contamination QC criteria:

Fraction	Compound	Dilution Sample(s)	Dilution Factor

No problems were found.

The following observation and/or deviations are observed for the following analyses:

1. Overall Observation:

Where needed, manual integrations were performed to improve data quality. The corrections were reviewed and associated hardcopies generated and reported as required.

The enclosed report includes the originals of all data with the exception of logbook pages and certain initial calibrations. Photocopies of logbook pages are included, with the originals maintained on file at the laboratory. The originals of initial calibrations that are shared among several cases are maintained on file at the laboratory, with photocopies included in the data package.

2. Volatile Analysis:

The analyses were performed according to Method 524.2 and to include MTBE. The analysis results are presented in CLP-like format.

Trap used for instrument V2: OI Analytical #10 trap containing 8 cm each of Tenax, silica gel and carbon molecular sieve

GC column used: 30 m x 0.25 mm id (1.4 um film thickness) DB-624 capillary column.

Surrogate recovery: all recoveries were within the QC limits.

Lab fortified blank: spike recoveries were within 80-120% with the exception that dichlorodifluoromethane and 1,2,3-trichloropropane were recovered marginally out.

Matrix spike/matrix spike duplicate: duplicate matrix spikes were performed on 230-WS-EF. Since matrix spikes were not specified by the method, the laboratory elected to use an advisory QC limit of 70-130% for recovery and 20% for replicate RPD. Based on this, methylene chloride was recovered marginally low in both spikes; in addition, 1,2-dibromo-3-chloropropane was recovered low in the MSD and that 1,2,3-trichloropropane exceeded the RPD.

Sample analysis: additional internal standards and surrogates were added to the samples but not reported. These included bromochloromethane (5.8 min), 1,2-dichloroethane-d4 (6.2 min), toluene (8.5 min) and chlorobenzene-d5 (10.4 min). Samples 244WS-EF and 005SR-IF were re-analyzed at dilution to ensure that the target analytes were determined within the instrument calibration range. No other unusual observation was noted for the analyses.

3. Semivolatile Analysis:

The analyses were performed and reported according to CLP OLM04.2.

GC column: 30 m x 0.25 mm id (0.5 um) DB-5MS capillary column

Surrogate recovery: recoveries were within the QC limits

Matrix spike/matrix spike duplicate: duplicate matrix spikes were performed on 230WS-EF. Several analytes were recovered out of the advisory QC limits for recovery and replicate precision.

Sample analysis: No unusual observation was noted for the analysis.

I certify that this data package is in compliance, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Kin Chiu

Kin Chiu
Technical Director
6/21/00

CHAIN OF CUSTODY RECORD

RFP No.: 6782

PO No.:

70853 WESTON 70853

SUPERFUND TECHNICAL ASSESSMENT AND RESPONSE TEAM
EPA CONTRACT 68-W5-0019
Phone: 908-225-6116 Fax: 908-225-7037

Matrix Box No.	Preservative Box No.
1. Surface Water	1. HCl
2. Ground Water	2. HNO3
3. Leachate	3. Na2SO4
4. Rinsate	4. H2SO4
5. Soil/Sediment	5. Other (Specify)
6. Oil	6. Ice Only
7. Waste	N. Not Preserved
8. Other (Specify)	

Send verbal and written results to: Roy F. Weston, Inc., USEPA Region II START
Suite 201, 1090 King Georges Post Road, Edison, New Jersey 08837-3703
Attention: Smita Sumbaly, START Analytical Coordinator

	Sample Number	Sample Collection MM/DD/YY/Time	Sample Matrix (Enter box #)	Conc. Low-L Med-M High-H	Sample Type Comp-C Grab-G	Sample Preserv. (Enter box #)	RAS ANALYSIS VOA	BNA	PEST	PCBs	TAL	CN	RCRA ANALYSIS KIN	COR	REAC	Full TCLP	OTHER
70853																	+MTBE
01	005SR-IF	6/8/00 0950	2	L	G	6	X	X									
02	005SR-CF	0955	2	L	G	6	X	X									
03	005SR-EF	1000	2	L	G	6	X	X									
04	246WS-IF	1100	2	L	G	6	X	X									
05	246WS-CF	1110	2	L	G	6	X	X									
06	246WS-EF	1120	2	L	G	6	X	X									
07	230WS-IF	1150	2	L	G	6	X	X									
08	230WS-CF	1200	2	L	G	6	X	X									MS/MSD
09	230WS-EF	1210	2	L	G	6	X	X									
10	250WS-IF	1310	2	L	G	6	X	X									
11	250WS-CF	1320	2	L	G	6	X	X									
12	250WS-EF	1330	2	L	G	6	X	X									
13	247WS-IF	1345	2	L	G	6	X	X									

Person Assuming Responsibility for Sample: Mitkem Corporation, 175 Metro Center Blvd., Warwick, RI 02886-1755

Time: | Date (MM/DD/YY):

Sample Number	Relinquished By:	Time	Date	Received By:	Reason for Change of Custody
All	[signature]	1745	6/8/00	FedEx Airbill # 821034603688	Sample Shipment
		0900	6/9/00	[signature]	

Roy F. Weston, Inc.
FEDERAL PROGRAMS DIVISION
In Association with Resource Applications, Inc., R.E. Sarriera Associates, PRC Environmental Management, C.C. Johnson & Malhotra, P.C., and GRB Environmental Services, Inc.

CHAIN OF CUSTODY RECORD

RFP No.: 6782

PO No.:

70853

WESTON. MANAGERS DESIGNERS/CONSULTANTS

70853

SUPERFUND TECHNICAL ASSESSMENT AND RESPONSE TEAM
EPA CONTRACT 68-W5-0019
Phone: 908-225-6116 Fax: 908-225-7037

Matrix Box No.:	Preservative Box No.:
1. Surface Water	1. HCl
2. Ground Water	2. HN03
3. Leachate	3. Na2SO4
4. Rinsate	4. H2SO4
5. Soil/Sediment	5. Other (Specify)
6. Oil	6. Ice Only
7. Waste	N. Not Preserved
8. Other (Specify) Trip Blank	

Send verbal and written results to: Roy F. Weston, Inc., USEPA Region II START
Suite 201, 1090 King Georges Post Road, Edison, New Jersey 08837-3703
Attention: Smita Sumbaly, START Analytical Coordinator

	Sample Number	Sample Collection MM/DD/YY/Time	Sample Matrix (Enter box #)	Conc. Low-L Med-M High-H	Sample Type Comp-C Grab-G	Sample Preserv. (Enter box #s)	RAS ANALYSIS VOA	BNA	PEST	PCBs	TAL	CN	RCRA ANALYSIS IGN	COR	REAC	Full TCLP	OTHER
14	247WS-CF	6/8/00 1350	2	L	G	6	X	X									+MTBE
15	247WS-EF	1400	2	L	G	6	X	X									
16	240WS-IF	1440	2	L	G	6	X	X									
17	240WS-CF	1450	2	L	G	6	X	X									
18	244WS-CF	1450 ~~1500~~	2	L	G	6	X	X									
19	240WS-EF	19 1500	2	L	G	6	X	X									TRIPBLANK
20	TB-01	20 —	8	L	G	6	X										

19 SK 6-9

Person Assuming Responsibility for Sample: Mitkem Corporation 175 Metro Center Blvd Warwick, RI.

Sample Number	Relinquished By:	Time	Date	Received By:	Reason for Change of Custody
all	Michael [signature]	1745	6/8/00	Fedex Airbill #	Sample Shipment
		6/09/00	0900	[signature]	

Roy F. Weston, Inc.
FEDERAL PROGRAMS DIVISION
In Association with Resource Applications, Inc., R.E. Sarriera Associates, PRC Environmental Management, C.C. Johnson & Malhotra, P.C., and GRB Environmental Services, Inc.

48 000006

VOA DATA TABLE

PROJECT: **West Mahopac** **SDG# 6782**

Water: DRINKING WATER : M thod 524.2

Sample # /Concentration (ug/L)

Sample Date		06/08/00	06/08/00	06/08/00	06/08/00	06/08/00	06/08/00	06/08/00	06/08/00	06/08/00	06/08/00
Sample ID		230WS-IF	230WS-CF	230WS-EF	240WS-IF	240WS-CF	240WS-EF	244WS-CF	246WS-IF	246WS-CF	246WS-EF
Lab ID	Method Detection Limit	70853007	70853008	70853009	70853016	70853017	70853019	70853018	70853004	70853005	70853006
Dilution Factor		1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Dichlorodifluoromethane	0.5	U	U	U	U	U	U	U	U	.5	U
Chloromethane	0.5	U	U	U	U	U	U	U	U	U	U
Vinyl Chloride	0.5	U	U	U	U	U	U	U	U	U	U
Bromomethane	0.5	U	U	U	U	U	U	U	U	U	U
Chloroethane	0.5	U	U	U	U	U	U	U	U	U	U
Trichlorofluoromethane	0.5	U	U	U	U	U	U	U	U	U	U
1,1-Dichloroethene	0.5	U	U	U	U	U	U	U	U	U	U
Methylene Chloride	0.5	0.7 U	U	U	U	U	U	U	U	U	U
trans-1,2-Dichloroethene	0.5	U	U	U	U	U	U	U	U	U	U
Methyl t-Butylether	0.5	U	U	U	10	35	82 *	37	U	U	U
1,1-Dichloroethane	0.5	U	U	U	U	U	U	U	U	U	U
cis-1,2-Dichloroethene	0.5	U	U	U	U	U	U	U	7	U	U
2,2-Dichloropropane	0.5	U	U	U	U	U	U	U	U	U	U
1,2-Dichloroethane	0.5	U	U	U	U	U	U	U	U	U	U
Bromochloromethane	0.5	U	U	U	U	U	U	U	U	U	U
Chloroform	0.5	U	U	U	U	U	U	U	U	U	U
Carbon Tetrachloride	0.5	U	U	U	U	U	U	U	U	U	U
1,1,1-Trichloroethane	0.5	U	U	U	U	U	U	U	U	U	U
1,1-Dichloropropene	0.5	U	U	U	U	U	U	U	U	U	U
Trichloroethene	0.5	35	U	U	.5	U	U	U	30	U	U
1,2-Dichloropropane	0.5	U	U	U	U	U	U	U	U	U	U
Benzene	0.5	U	U	U	U	U	U	U	U	U	U
Dibromomethane	0.5	U	U	U	U	U	U	U	U	U	U
Bromodichloromethane	0.5	U	U	U	U	U	U	U	U	U	U
cis-1,3-Dichloropropene	0.5	U	U	U	U	U	U	U	U	U	U
Toluene	0.5	U	U	U	U	U	U	U	U	U	U
trans-1,3-Dichloropropene	0.5	U	U	U	U	U	U	U	U	U	U
1,1,2-Trichloroethane	0.5	U	U	U	U	U	U	U	U	U	U
Tetrachloroethene	0.5	U	U	U	U	U	U	U	U	U	U
1,3-Dichloropropane	0.5	U	U	U	U	U	U	U	U	U	U
Dibromochloromethane	0.5	U	U	U	U	U	U	U	U	U	U
1,2-Dibromoethane	0.5	U	U	U	U	U	U	U	U	U	U
Chlorobenzene	0.5	U	U	U	U	U	U	U	U	U	U
1,1,1,2-Tetrachloroethane	0.5	U	U	U	U	U	U	U	U	U	U
Ethylbenzene	0.5	U	U	U	U	U	U	U	U	U	U
m,p-Xylenes	0.5	U	U	U	U	U	U	U	U	U	U
o- Xylenes	0.5	U	U	U	U	U	U	U	U	U	U
Styrene	0.5	U	U	U	U	U	U	U	U	U	U
Bromoform	0.5	U	U	U	U	U	U	U	U	U	U
Isopropylbenzene	0.5	U	U	U	U	U	U	U	U	U	U
1,1,2,2-Tetrachloroethane	0.5	U	U	U	U	U	U	U	U	U	U
Bromobenzene	0.5	U	U	U	U	U	U	U	U	U	U
1,2,3-Trichloropropane	0.5	U	U	U	U	U	U	U	U	U	U
n-Propylbenzene	0.5	U	U	U	U	U	U	U	U	U	U
2-Chlorotoluene	0.5	U	U	U	U	U	U	U	U	U	U
1,3,5-Trimethylbenzene	0.5	U	U	U	U	U	U	U	U	U	U
4-Chlorotoluene	0.5	U	U	U	U	U	U	U	U	U	U
tert-Butylbenzene	0.5	U	U	U	U	U	U	U	U	U	U
1,2,4-Trimethylbenzene	0.5	U	U	U	U	U	U	U	U	U	U
sec-Butylbenzene	0.5	U	U	U	U	U	U	U	U	U	U
1,3-Dichlorobenzene	0.5	U	U	U	U	U	U	U	U	U	U
4-Isopropyltoluene	0.5	U	U	U	U	U	U	U	U	U	U
1,4-Dichlorobenzene	0.5	U	U	U	U	U	U	U	U	U	U
n-Butylbenzene	0.5	U	U	U	U	U	U	U	U	U	U
1,2-Dichlorobenzene	0.5	U	U	U	U	U	U	U	U	U	U
1,2-Dibromo-3-chloropropane	0.5	U	U	U	U	U	U	U	U	U	U
1,2,4-Trichlorobenzene	0.5	U	U	U	U	U	U	U	U	U	U
Hexachlorobutadiene	0.5	U	U	U	U	U	U	U	U	U	U
Naphthalene	0.5	U	U	U	U	U	U	U	U	U	U
1,2,3-Trichlorobenzene	0.5	U	U	U	U	U	U	U	U	U	U

*- DF= 5.0

U - Non-detected compound.

B - Compound detected in the associated Meth d Blank.

J - Estimated value.

JN - Presumptive evidence of a compound at an estimated value.

R - Rejected compound.

PROJECT:
Water: DRINKING WATER : M
Sample # /Concentration (ug/L)

Sample Date		06/08/00	06/08/00	06/08/00	06/08/00	06/08/00	06/08/00	06/08/00	06/08/00	06/08/00	06/08/00
Sample ID		247WS-IF	247WS-CF	247WS-EF	250WS-IF	250WS-CF	250WS-EF	005SR-IF	005SR-CF	005SR-EF	TB-01
Lab ID	Method	70853013	70853014	70853015	70853010	70853011	70853012	70853001	70853002	70853003	70853020
	Detection										
Dilution Factor	Limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Dichlorodifluoromethane	0.5	U	U	U	4	1	U	U	U	U	U
Chloromethane	0.5	U	U	U	U	U	U	U	U	U	U
Vinyl Chloride	0.5	U	U	U	U	U	U	U	U	U	U
Bromomethane	0.5	U	U	U	U	U	U	U	U	U	U
Chloroethane	0.5	U	U	U	U	U	U	U	U	U	U
Trichlorofluoromethane	0.5	U	U	U	U	U	U	U	U	U	U
1,1-Dichloroethene	0.5	U	U	U	U	U	U	U	U	U	U
Methylene Chloride	0.5	U	U	U	U	U	U	U	U	U	U
trans-1,2-Dichloroethene	0.5	U	U	U	U	U	U	U	U	U	U
Methyl t-Butylether	0.5	U	U	U	U	U	U	U	U	U	U
1,1-Dichloroethane	0.5	U	U	U	U	U	U	U	U	U	U
cis-1,2-Dichloroethene	0.5	U	U	U	U	U	U	6	U	U	U
2,2-Dichloropropane	0.5	U	U	U	U	U	U	U	U	U	U
1,2-Dichloroethane	0.5	U	U	U	U	U	U	U	U	U	U
Bromochloromethane	0.5	U	U	U	U	U	U	U	U	U	U
Chloroform	0.5	U	U	U	U	U	U	U	U	U	U
Carbon Tetrachloride	0.5	U	U	U	U	U	U	U	U	U	U
1,1,1-Trichloroethane	0.5	U	U	U	U	U	U	U	U	U	U
1,1-Dichloropropene	0.5	U	U	U	U	U	U	U	U	U	U
Trichloroethene	0.5	U	U	U	7	U	U	680 *	U	U	U
1,2-Dichloropropane	0.5	U	U	U	U	U	U	U	U	U	U
Benzene	0.5	U	U	U	U	U	U	U	U	U	U
Dibromomethane	0.5	U	U	U	U	U	U	U	U	U	U
Bromodichloromethane	0.5	U	U	U	U	U	U	U	U	U	U
cis-1,3-Dichloropropene	0.5	U	U	U	U	U	U	U	U	U	U
Toluene	0.5	U	U	U	U	U	U	U	U	U	U
trans-1,3-Dichloropropene	0.5	U	U	U	U	U	U	U	U	U	U
1,1,2-Trichloroethane	0.5	U	U	U	U	U	U	U	U	U	U
Tetrachloroethene	0.5	U	U	U	U	U	U	U	U	U	U
1,3-Dichloropropane	0.5	U	U	U	U	U	U	U	U	U	U
Dibromochloromethane	0.5	U	U	U	U	U	U	U	U	U	U
1,2-Dibromoethane	0.5	U	U	U	U	U	U	U	U	U	U
Chlorobenzene	0.5	U	U	U	U	U	U	U	U	U	U
1,1,1,2-Tetrachloroethane	0.5	U	U	U	U	U	U	U	U	U	U
Ethylbenzene	0.5	U	U	U	U	U	U	U	U	U	U
m,p-Xylenes	0.5	U	U	U	U	U	U	U	U	U	U
o- Xylenes	0.5	U	U	U	U	U	U	U	U	U	U
Styrene	0.5	U	U	U	U	U	U	U	U	U	U
Bromoform	0.5	U	U	U	U	U	U	U	U	U	U
Isopropylbenzene	0.5	U	U	U	U	U	U	U	U	U	U
1,1,2,2-Tetrachloroethane	0.5	U	U	U	U	U	U	U	U	U	U
Bromobenzene	0.5	U	U	U	U	U	U	U	U	U	U
1,2,3-Trichloropropane	0.5	U	U	U	U	U	U	U	U	U	U
n-Propylbenzene	0.5	U	U	U	U	U	U	U	U	U	U
2-Chlorotoluene	0.5	U	U	U	U	U	U	U	U	U	U
1,3,5-Trimethylbenzene	0.5	U	U	U	U	U	U	U	U	U	U
4-Chlorotoluene	0.5	U	U	U	U	U	U	U	U	U	U
tert-Butylbenzene	0.5	U	U	U	U	U	U	U	U	U	U
1,2,4-Trimethylbenzene	0.5	U	U	U	U	U	U	U	U	U	U
sec-Butylbenzene	0.5	U	U	U	U	U	U	U	U	U	U
1,3-Dichlorobenzene	0.5	U	U	U	U	U	U	U	U	U	U
4-Isopropyltoluene	0.5	U	U	U	U	U	U	U	U	U	U
1,4-Dichlorobenzene	0.5	U	U	U	U	U	U	U	U	U	U
n-Butylbenzene	0.5	U	U	U	U	U	U	U	U	U	U
1,2-Dichlorobenzene	0.5	U	U	U	U	U	U	U	U	U	U
1,2-Dibromo-3-chloropropan	0.5	U	U	U	U	U	U	U	U	U	U
1,2,4-Trichlorobenzene	0.5	U	U	U	U	U	U	U	U	U	U
Hexachlorobutadiene	0.5	U	U	U	U	U	U	U	U	U	U
Naphthalene	0.5	U	U	U	U	U	U	U	U	U	U
1,2,3-Trichlorobenzene	0.5	U	U	U	U	U	U	U	U	U	U

*- DF= 20.0

U - Non-detected compound.
B - Compound detected in the associated Metho
J - Estimated value.
JN - Presumptive evidence of a compound at an
R - Rejected compound.

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

005SR-CF

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: 70853

Matrix: (soil/water) WATER Lab Sample ID: 70853002

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: V2D1127

Level: (low/med) LOW Date Received: 06/09/00

% Moisture: not dec. _____ Date Analyzed: 06/13/00

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	0.5	U
74-87-3	Chloromethane	0.5	U
75-01-4	Vinyl Chloride	0.5	U
74-83-9	Bromomethane	0.5	U
75-00-3	Chloroethane	0.5	U
75-69-4	Trichlorofluoromethane	0.5	U
75-35-4	1,1-Dichloroethene	0.5	U
75-09-2	Methylene Chloride	0.5	U
156-60-5	trans-1,2-Dichloroethene	0.5	U
1634-04-4	Methyl tert-butyl ether	0.5	U
75-34-3	1,1-Dichloroethane	0.5	U
156-59-2	cis-1,2-Dichloroethene	0.5	U
590-20-7	2,2-Dichloropropane	0.5	U
107-06-2	1,2-Dichloroethane	0.5	U
74-97-5	Bromochloromethane	0.5	U
67-66-3	Chloroform	0.5	U
56-23-5	Carbon Tetrachloride	0.5	U
71-55-6	1,1,1-Trichloroethane	0.5	U
563-58-6	1,1-Dichloropropene	0.5	U
79-01-6	Trichloroethene	0.5	U
78-87-5	1,2-Dichloropropane	0.5	U
71-43-2	Benzene	0.5	U
74-95-3	Dibromomethane	0.5	U
75-27-4	Bromodichloromethane	0.5	U
10061-01-5	cis-1,3-Dichloropropene	0.5	U
108-88-3	Toluene	0.5	U
10061-02-6	trans-1,3-Dichloropropene	0.5	U
79-00-5	1,1,2-Trichloroethane	0.5	U
127-18-4	Tetrachloroethene	0.5	U
142-28-9	1,3-Dichloropropane	0.5	U
124-48-1	Dibromochloromethane	0.5	U
106-93-4	1,2-Dibromoethane	0.5	U
108-90-7	Chlorobenzene	0.5	U
630-20-6	1,1,1,2-Tetrachloroethane	0.5	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

005SR-CF

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: 70853

Matrix: (soil/water) WATER Lab Sample ID: 70853002

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: V2D1127

Level: (low/med) LOW Date Received: 06/09/00

% Moisture: not dec. _____ Date Analyzed: 06/13/00

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-41-4	Ethylbenzene	0.5	U
136777-61-2	m,p-Xylene	0.5	U
95-47-6	o-Xylene	0.5	U
100-42-5	Styrene	0.5	U
75-25-2	Bromoform	0.5	U
98-82-8	Isopropylbenzene	0.5	U
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U
108-86-1	Bromobenzene	0.5	U
96-18-4	1,2,3-Trichloropropane	0.5	U
103-65-1	n-Propylbenzene	0.5	U
95-49-8	2-Chlorotoluene	0.5	U
108-67-8	1,3,5-Trimethylbenzene	0.5	U
106-43-4	4-Chlorotoluene	0.5	U
98-06-6	tert-Butylbenzene	0.5	U
95-63-6	1,2,4-Trimethylbenzene	0.5	U
135-98-8	sec-Butylbenzene	0.5	U
541-73-1	1,3-Dichlorobenzene	0.5	U
99-87-6	4-Isopropyltoluene	0.5	U
106-46-7	1,4-Dichlorobenzene	0.5	U
104-51-8	n-Butylbenzene	0.5	U
95-50-1	1,2-Dichlorobenzene	0.5	U
96-12-8	1,2-Dibromo-3-chloropropane	0.5	U
120-82-1	1,2,4-Trichlorobenzene	0.5	U
87-68-3	Hexachlorobutadiene	0.5	U
91-20-3	Naphthalene	0.5	U
87-61-6	1,2,3-Trichlorobenzene	0.5	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

005SR-CF

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: 70853

Matrix: (soil/water) WATER Lab Sample ID: 70853002

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: V2D1127

Level: (low/med) LOW Date Received: 06/09/00

% Moisture: not dec. _____ Date Analyzed: 06/13/00

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

005SR-EF

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: 70853

Matrix: (soil/water) WATER Lab Sample ID: 70853003

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: V2D1128

Level: (low/med) LOW Date Received: 06/09/00

% Moisture: not dec. _____ Date Analyzed: 06/13/00

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	0.5	U
74-87-3	Chloromethane	0.5	U
75-01-4	Vinyl Chloride	0.5	U
74-83-9	Bromomethane	0.5	U
75-00-3	Chloroethane	0.5	U
75-69-4	Trichlorofluoromethane	0.5	U
75-35-4	1,1-Dichloroethene	0.5	U
75-09-2	Methylene Chloride	0.5	U
156-60-5	trans-1,2-Dichloroethene	0.5	U
1634-04-4	Methyl tert-butyl ether	0.5	U
75-34-3	1,1-Dichloroethane	0.5	U
156-59-2	cis-1,2-Dichloroethene	0.5	U
590-20-7	2,2-Dichloropropane	0.5	U
107-06-2	1,2-Dichloroethane	0.5	U
74-97-5	Bromochloromethane	0.5	U
67-66-3	Chloroform	0.5	U
56-23-5	Carbon Tetrachloride	0.5	U
71-55-6	1,1,1-Trichloroethane	0.5	U
563-58-6	1,1-Dichloropropene	0.5	U
79-01-6	Trichloroethene	0.5	U
78-87-5	1,2-Dichloropropane	0.5	U
71-43-2	Benzene	0.5	U
74-95-3	Dibromomethane	0.5	U
75-27-4	Bromodichloromethane	0.5	U
10061-01-5	cis-1,3-Dichloropropene	0.5	U
108-88-3	Toluene	0.5	U
10061-02-6	trans-1,3-Dichloropropene	0.5	U
79-00-5	1,1,2-Trichloroethane	0.5	U
127-18-4	Tetrachloroethene	0.5	U
142-28-9	1,3-Dichloropropane	0.5	U
124-48-1	Dibromochloromethane	0.5	U
106-93-4	1,2-Dibromoethane	0.5	U
108-90-7	Chlorobenzene	0.5	U
630-20-6	1,1,1,2-Tetrachloroethane	0.5	U

NF

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

005SR-EF

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: 70853

Matrix: (soil/water) WATER Lab Sample ID: 70853003

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: V2D1128

Level: (low/med) LOW Date Received: 06/09/00

% Moisture: not dec. _____ Date Analyzed: 06/13/00

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-41-4	Ethylbenzene	0.5	U
136777-61-2	m,p-Xylene	0.5	U
95-47-6	o-Xylene	0.5	U
100-42-5	Styrene	0.5	U
75-25-2	Bromoform	0.5	U
98-82-8	Isopropylbenzene	0.5	U
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U
108-86-1	Bromobenzene	0.5	U
96-18-4	1,2,3-Trichloropropane	0.5	U
103-65-1	n-Propylbenzene	0.5	U
95-49-8	2-Chlorotoluene	0.5	U
108-67-8	1,3,5-Trimethylbenzene	0.5	U
106-43-4	4-Chlorotoluene	0.5	U
98-06-6	tert-Butylbenzene	0.5	U
95-63-6	1,2,4-Trimethylbenzene	0.5	U
135-98-8	sec-Butylbenzene	0.5	U
541-73-1	1,3-Dichlorobenzene	0.5	U
99-87-6	4-Isopropyltoluene	0.5	U
106-46-7	1,4-Dichlorobenzene	0.5	U
104-51-8	n-Butylbenzene	0.5	U
95-50-1	1,2-Dichlorobenzene	0.5	U
96-12-8	1,2-Dibromo-3-chloropropane	0.5	U
120-82-1	1,2,4-Trichlorobenzene	0.5	U
87-68-3	Hexachlorobutadiene	0.5	U
91-20-3	Naphthalene	0.5	U
87-61-6	1,2,3-Trichlorobenzene	0.5	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

005SR-EF

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: 70853

Matrix: (soil/water) WATER Lab Sample ID: 70853003

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: V2D1128

Level: (low/med) LOW Date Received: 06/09/00

% Moisture: not dec. _____ Date Analyzed: 06/13/00

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

005SR-IF

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: 70853

Matrix: (soil/water) WATER Lab Sample ID: 70853001

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: V2D1126

Level: (low/med) LOW Date Received: 06/09/00

% Moisture: not dec. _____ Date Analyzed: 06/13/00

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L		Q
75-71-8	Dichlorodifluoromethane		0.5	U
74-87-3	Chloromethane		0.5	U
75-01-4	Vinyl Chloride		0.5	U
74-83-9	Bromomethane		0.5	U
75-00-3	Chloroethane		0.5	U
75-69-4	Trichlorofluoromethane		0.5	U
75-35-4	1,1-Dichloroethene		0.5	U
75-09-2	Methylene Chloride		0.5	U
156-60-5	trans-1,2-Dichloroethene		0.5	U
1634-04-4	Methyl tert-butyl ether		0.5	U
75-34-3	1,1-Dichloroethane		0.5	U
156-59-2	cis-1,2-Dichloroethene		6	
590-20-7	2,2-Dichloropropane		0.5	U
107-06-2	1,2-Dichloroethane		0.5	U
74-97-5	Bromochloromethane		0.5	U
67-66-3	Chloroform		0.5	U
56-23-5	Carbon Tetrachloride		0.5	U
71-55-6	1,1,1-Trichloroethane		0.5	U
563-58-6	1,1-Dichloropropene		0.5	U
79-01-6	Trichloroethene	680	~~460~~	~~E~~ *
78-87-5	1,2-Dichloropropane		0.5	U
71-43-2	Benzene		0.5	U
74-95-3	Dibromomethane		0.5	U
75-27-4	Bromodichloromethane		0.5	U
10061-01-5	cis-1,3-Dichloropropene		0.5	U
108-88-3	Toluene		0.5	U
10061-02-6	trans-1,3-Dichloropropene		0.5	U
79-00-5	1,1,2-Trichloroethane		0.5	U
127-18-4	Tetrachloroethene		0.5	U
142-28-9	1,3-Dichloropropane		0.5	U
124-48-1	Dibromochloromethane		0.5	U
106-93-4	1,2-Dibromoethane		0.5	U
108-90-7	Chlorobenzene		0.5	U
630-20-6	1,1,1,2-Tetrachloroethane		0.5	U

* Value from 005SR-IF DL (DF=20)

FORM I VOA

OLM03.0

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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

005SR-IF

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: 70853

Matrix: (soil/water) WATER Lab Sample ID: 70853001

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: V2D1126

Level: (low/med) LOW Date Received: 06/09/00

% Moisture: not dec. _____ Date Analyzed: 06/13/00

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-41-4	Ethylbenzene	0.5	U
136777-61-2	m,p-Xylene	0.5	U
95-47-6	o-Xylene	0.5	U
100-42-5	Styrene	0.5	U
75-25-2	Bromoform	0.5	U
98-82-8	Isopropylbenzene	0.5	U
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U
108-86-1	Bromobenzene	0.5	U
96-18-4	1,2,3-Trichloropropane	0.5	U
103-65-1	n-Propylbenzene	0.5	U
95-49-8	2-Chlorotoluene	0.5	U
108-67-8	1,3,5-Trimethylbenzene	0.5	U
106-43-4	4-Chlorotoluene	0.5	U
98-06-6	tert-Butylbenzene	0.5	U
95-63-6	1,2,4-Trimethylbenzene	0.5	U
135-98-8	sec-Butylbenzene	0.5	U
541-73-1	1,3-Dichlorobenzene	0.5	U
99-87-6	4-Isopropyltoluene	0.5	U
106-46-7	1,4-Dichlorobenzene	0.5	U
104-51-8	n-Butylbenzene	0.5	U
95-50-1	1,2-Dichlorobenzene	0.5	U
96-12-8	1,2-Dibromo-3-chloropropane	0.5	U
120-82-1	1,2,4-Trichlorobenzene	0.5	U
87-68-3	Hexachlorobutadiene	0.5	U
91-20-3	Naphthalene	0.5	U
87-61-6	1,2,3-Trichlorobenzene	0.5	U

NK

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

005SR-IF

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: 70853

Matrix: (soil/water) WATER Lab Sample ID: 70853001

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: V2D1126

Level: (low/med) LOW Date Received: 06/09/00

% Moisture: not dec. _____ Date Analyzed: 06/13/00

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

005SR-IFDL

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: 70853

Matrix: (soil/water) WATER Lab Sample ID: 70853001DL

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: V2D1170

Level: (low/med) LOW Date Received: 06/09/00

% Moisture: not dec. _____ Date Analyzed: 06/14/00

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 20.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl Chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	10	U
75-09-2	Methylene Chloride	12	~~D~~ U
156-60-5	trans-1,2-Dichloroethene	10	U
1634-04-4	Methyl tert-butyl ether	10	U
75-34-3	1,1-Dichloroethane	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
590-20-7	2,2-Dichloropropane	10	U
107-06-2	1,2-Dichloroethane	10	U
74-97-5	Bromochloromethane	10	U
67-66-3	Chloroform	10	U
56-23-5	Carbon Tetrachloride	10	U
71-55-6	1,1,1-Trichloroethane	10	U
563-58-6	1,1-Dichloropropene	10	U
79-01-6	Trichloroethene	680	D
78-87-5	1,2-Dichloropropane	10	U
71-43-2	Benzene	10	U
74-95-3	Dibromomethane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-88-3	Toluene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	10	U
142-28-9	1,3-Dichloropropane	10	U
124-48-1	Dibromochloromethane	10	U
106-93-4	1,2-Dibromoethane	10	U
108-90-7	Chlorobenzene	10	U
630-20-6	1,1,1,2-Tetrachloroethane	10	U

FORM I VOA OLM03.0

DO NOT USE

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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

005SR-IFDL

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: 70853

Matrix: (soil/water) WATER Lab Sample ID: 70853001DL

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: V2D1170

Level: (low/med) LOW Date Received: 06/09/00

% Moisture: not dec. _____ Date Analyzed: 06/14/00

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 20.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-41-4	Ethylbenzene	10	U
136777-61-2	m,p-Xylene	10	U
95-47-6	o-Xylene	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
98-82-8	Isopropylbenzene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-86-1	Bromobenzene	10	U
96-18-4	1,2,3-Trichloropropane	10	U
103-65-1	n-Propylbenzene	10	U
95-49-8	2-Chlorotoluene	10	U
108-67-8	1,3,5-Trimethylbenzene	10	U
106-43-4	4-Chlorotoluene	10	U
98-06-6	tert-Butylbenzene	10	U
95-63-6	1,2,4-Trimethylbenzene	10	U
135-98-8	sec-Butylbenzene	10	U
541-73-1	1,3-Dichlorobenzene	10	U
99-87-6	4-Isopropyltoluene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
104-51-8	n-Butylbenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
96-12-8	1,2-Dibromo-3-chloropropane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
87-68-3	Hexachlorobutadiene	10	U
91-20-3	Naphthalene	10	U
87-61-6	1,2,3-Trichlorobenzene	10	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

005SR-IFDL

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: 70853

Matrix: (soil/water) WATER Lab Sample ID: 70853001DL

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: V2D1170

Level: (low/med) LOW Date Received: 06/09/00

% Moisture: not dec. _____ Date Analyzed: 06/14/00

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 20.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

230WS-CF

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: 70853

Matrix: (soil/water) WATER Lab Sample ID: 70853008

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: V2D1133

Level: (low/med) LOW Date Received: 06/09/00

% Moisture: not dec. _____ Date Analyzed: 06/13/00

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	0.5	U
74-87-3	Chloromethane	0.5	U
75-01-4	Vinyl Chloride	0.5	U
74-83-9	Bromomethane	0.5	U
75-00-3	Chloroethane	0.5	U
75-69-4	Trichlorofluoromethane	0.5	U
75-35-4	1,1-Dichloroethene	0.5	U
75-09-2	Methylene Chloride	0.5	U
156-60-5	trans-1,2-Dichloroethene	0.5	U
1634-04-4	Methyl tert-butyl ether	0.5	U
75-34-3	1,1-Dichloroethane	0.5	U
156-59-2	cis-1,2-Dichloroethene	0.5	U
590-20-7	2,2-Dichloropropane	0.5	U
107-06-2	1,2-Dichloroethane	0.5	U
74-97-5	Bromochloromethane	0.5	U
67-66-3	Chloroform	0.5	U
56-23-5	Carbon Tetrachloride	0.5	U
71-55-6	1,1,1-Trichloroethane	0.5	U
563-58-6	1,1-Dichloropropene	0.5	U
79-01-6	Trichloroethene	0.5	U
78-87-5	1,2-Dichloropropane	0.5	U
71-43-2	Benzene	0.5	U
74-95-3	Dibromomethane	0.5	U
75-27-4	Bromodichloromethane	0.5	U
10061-01-5	cis-1,3-Dichloropropene	0.5	U
108-88-3	Toluene	0.5	U
10061-02-6	trans-1,3-Dichloropropene	0.5	U
79-00-5	1,1,2-Trichloroethane	0.5	U
127-18-4	Tetrachloroethene	0.5	U
142-28-9	1,3-Dichloropropane	0.5	U
124-48-1	Dibromochloromethane	0.5	U
106-93-4	1,2-Dibromoethane	0.5	U
108-90-7	Chlorobenzene	0.5	U
630-20-6	1,1,1,2-Tetrachloroethane	0.5	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

230WS-CF

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: 70853

Matrix: (soil/water) WATER Lab Sample ID: 70853008

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: V2D1133

Level: (low/med) LOW Date Received: 06/09/00

% Moisture: not dec. _____ Date Analyzed: 06/13/00

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-41-4	Ethylbenzene	0.5	U
136777-61-2	m,p-Xylene	0.5	U
95-47-6	o-Xylene	0.5	U
100-42-5	Styrene	0.5	U
75-25-2	Bromoform	0.5	U
98-82-8	Isopropylbenzene	0.5	U
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U
108-86-1	Bromobenzene	0.5	U
96-18-4	1,2,3-Trichloropropane	0.5	U
103-65-1	n-Propylbenzene	0.5	U
95-49-8	2-Chlorotoluene	0.5	U
108-67-8	1,3,5-Trimethylbenzene	0.5	U
106-43-4	4-Chlorotoluene	0.5	U
98-06-6	tert-Butylbenzene	0.5	U
95-63-6	1,2,4-Trimethylbenzene	0.5	U
135-98-8	sec-Butylbenzene	0.5	U
541-73-1	1,3-Dichlorobenzene	0.5	U
99-87-6	4-Isopropyltoluene	0.5	U
106-46-7	1,4-Dichlorobenzene	0.5	U
104-51-8	n-Butylbenzene	0.5	U
95-50-1	1,2-Dichlorobenzene	0.5	U
96-12-8	1,2-Dibromo-3-chloropropane	0.5	U
120-82-1	1,2,4-Trichlorobenzene	0.5	U
87-68-3	Hexachlorobutadiene	0.5	U
91-20-3	Naphthalene	0.5	U
87-61-6	1,2,3-Trichlorobenzene	0.5	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

230WS-CF

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: 70853

Matrix: (soil/water) WATER Lab Sample ID: 70853008

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: V2D1133

Level: (low/med) LOW Date Received: 06/09/00

% Moisture: not dec. _____ Date Analyzed: 06/13/00

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

230WS-EF

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: 70853

Matrix: (soil/water) WATER Lab Sample ID: 70853009

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: V2D1134

Level: (low/med) LOW Date Received: 06/09/00

% Moisture: not dec. _____ Date Analyzed: 06/13/00

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	0.5	U
74-87-3	Chloromethane	0.5	U
75-01-4	Vinyl Chloride	0.5	U
74-83-9	Bromomethane	0.5	U
75-00-3	Chloroethane	0.5	U
75-69-4	Trichlorofluoromethane	0.5	U
75-35-4	1,1-Dichloroethene	0.5	U
75-09-2	Methylene Chloride	0.5	U
156-60-5	trans-1,2-Dichloroethene	0.5	U
1634-04-4	Methyl tert-butyl ether	0.5	U
75-34-3	1,1-Dichloroethane	0.5	U
156-59-2	cis-1,2-Dichloroethene	0.5	U
590-20-7	2,2-Dichloropropane	0.5	U
107-06-2	1,2-Dichloroethane	0.5	U
74-97-5	Bromochloromethane	0.5	U
67-66-3	Chloroform	0.5	U
56-23-5	Carbon Tetrachloride	0.5	U
71-55-6	1,1,1-Trichloroethane	0.5	U
563-58-6	1,1-Dichloropropene	0.5	U
79-01-6	Trichloroethene	0.5	U
78-87-5	1,2-Dichloropropane	0.5	U
71-43-2	Benzene	0.5	U
74-95-3	Dibromomethane	0.5	U
75-27-4	Bromodichloromethane	0.5	U
10061-01-5	cis-1,3-Dichloropropene	0.5	U
108-88-3	Toluene	0.5	U
10061-02-6	trans-1,3-Dichloropropene	0.5	U
79-00-5	1,1,2-Trichloroethane	0.5	U
127-18-4	Tetrachloroethene	0.5	U
142-28-9	1,3-Dichloropropane	0.5	U
124-48-1	Dibromochloromethane	0.5	U
106-93-4	1,2-Dibromoethane	0.5	U
108-90-7	Chlorobenzene	0.5	U
630-20-6	1,1,1,2-Tetrachloroethane	0.5	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

230WS-EF

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: 70853

Matrix: (soil/water) WATER Lab Sample ID: 70853009

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: V2D1134

Level: (low/med) LOW Date Received: 06/09/00

% Moisture: not dec. _____ Date Analyzed: 06/13/00

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-41-4	Ethylbenzene	0.5	U
136777-61-2	m,p-Xylene	0.5	U
95-47-6	o-Xylene	0.5	U
100-42-5	Styrene	0.5	U
75-25-2	Bromoform	0.5	U
98-82-8	Isopropylbenzene	0.5	U
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U
108-86-1	Bromobenzene	0.5	U
96-18-4	1,2,3-Trichloropropane	0.5	U
103-65-1	n-Propylbenzene	0.5	U
95-49-8	2-Chlorotoluene	0.5	U
108-67-8	1,3,5-Trimethylbenzene	0.5	U
106-43-4	4-Chlorotoluene	0.5	U
98-06-6	tert-Butylbenzene	0.5	U
95-63-6	1,2,4-Trimethylbenzene	0.5	U
135-98-8	sec-Butylbenzene	0.5	U
541-73-1	1,3-Dichlorobenzene	0.5	U
99-87-6	4-Isopropyltoluene	0.5	U
106-46-7	1,4-Dichlorobenzene	0.5	U
104-51-8	n-Butylbenzene	0.5	U
95-50-1	1,2-Dichlorobenzene	0.5	U
96-12-8	1,2-Dibromo-3-chloropropane	0.5	U
120-82-1	1,2,4-Trichlorobenzene	0.5	U
87-68-3	Hexachlorobutadiene	0.5	U
91-20-3	Naphthalene	0.5	U
87-61-6	1,2,3-Trichlorobenzene	0.5	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

230WS-EF

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: 70853

Matrix: (soil/water) WATER Lab Sample ID: 70853009

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: V2D1134

Level: (low/med) LOW Date Received: 06/09/00

% Moisture: not dec. _____ Date Analyzed: 06/13/00

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

230WS-IF

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: 70853

Matrix: (soil/water) WATER Lab Sample ID: 70853007

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: V2D1132

Level: (low/med) LOW Date Received: 06/09/00

% Moisture: not dec. _____ Date Analyzed: 06/13/00

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	0.5	U
74-87-3	Chloromethane	0.5	U
75-01-4	Vinyl Chloride	0.5	U
74-83-9	Bromomethane	0.5	U
75-00-3	Chloroethane	0.5	U
75-69-4	Trichlorofluoromethane	0.5	U
75-35-4	1,1-Dichloroethene	0.5	U
75-09-2	Methylene Chloride	0.7	~~B~~ U
156-60-5	trans-1,2-Dichloroethene	0.5	U
1634-04-4	Methyl tert-butyl ether	0.5	U
75-34-3	1,1-Dichloroethane	0.5	U
156-59-2	cis-1,2-Dichloroethene	0.5	U
590-20-7	2,2-Dichloropropane	0.5	U
107-06-2	1,2-Dichloroethane	0.5	U
74-97-5	Bromochloromethane	0.5	U
67-66-3	Chloroform	0.5	U
56-23-5	Carbon Tetrachloride	0.5	U
71-55-6	1,1,1-Trichloroethane	0.5	U
563-58-6	1,1-Dichloropropene	0.5	U
79-01-6	Trichloroethene	35	
78-87-5	1,2-Dichloropropane	0.5	U
71-43-2	Benzene	0.5	U
74-95-3	Dibromomethane	0.5	U
75-27-4	Bromodichloromethane	0.5	U
10061-01-5	cis-1,3-Dichloropropene	0.5	U
108-88-3	Toluene	0.5	U
10061-02-6	trans-1,3-Dichloropropene	0.5	U
79-00-5	1,1,2-Trichloroethane	0.5	U
127-18-4	Tetrachloroethene	0.5	U
142-28-9	1,3-Dichloropropane	0.5	U
124-48-1	Dibromochloromethane	0.5	U
106-93-4	1,2-Dibromoethane	0.5	U
108-90-7	Chlorobenzene	0.5	U
630-20-6	1,1,1,2-Tetrachloroethane	0.5	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

230WS-IF

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: 70853

Matrix: (soil/water) WATER Lab Sample ID: 70853007

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: V2D1132

Level: (low/med) LOW Date Received: 06/09/00

% Moisture: not dec. _____ Date Analyzed: 06/13/00

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-41-4	Ethylbenzene	0.5	U
136777-61-2	m,p-Xylene	0.5	U
95-47-6	o-Xylene	0.5	U
100-42-5	Styrene	0.5	U
75-25-2	Bromoform	0.5	U
98-82-8	Isopropylbenzene	0.5	U
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U
108-86-1	Bromobenzene	0.5	U
96-18-4	1,2,3-Trichloropropane	0.5	U
103-65-1	n-Propylbenzene	0.5	U
95-49-8	2-Chlorotoluene	0.5	U
108-67-8	1,3,5-Trimethylbenzene	0.5	U
106-43-4	4-Chlorotoluene	0.5	U
98-06-6	tert-Butylbenzene	0.5	U
95-63-6	1,2,4-Trimethylbenzene	0.5	U
135-98-8	sec-Butylbenzene	0.5	U
541-73-1	1,3-Dichlorobenzene	0.5	U
99-87-6	4-Isopropyltoluene	0.5	U
106-46-7	1,4-Dichlorobenzene	0.5	U
104-51-8	n-Butylbenzene	0.5	U
95-50-1	1,2-Dichlorobenzene	0.5	U
96-12-8	1,2-Dibromo-3-chloropropane	0.5	U
120-82-1	1,2,4-Trichlorobenzene	0.5	U
87-68-3	Hexachlorobutadiene	0.5	U
91-20-3	Naphthalene	0.5	U
87-61-6	1,2,3-Trichlorobenzene	0.5	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

230WS-IF

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: 70853

Matrix: (soil/water) WATER Lab Sample ID: 70853007

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: V2D1132

Level: (low/med) LOW Date Received: 06/09/00

% Moisture: not dec. _____ Date Analyzed: 06/13/00

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

240WS-CF

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: 70853

Matrix: (soil/water) WATER Lab Sample ID: 70853017

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: V2D1159

Level: (low/med) LOW Date Received: 06/09/00

% Moisture: not dec. _____ Date Analyzed: 06/14/00

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	0.5	U
74-87-3	Chloromethane	0.5	U
75-01-4	Vinyl Chloride	0.5	U
74-83-9	Bromomethane	0.5	U
75-00-3	Chloroethane	0.5	U
75-69-4	Trichlorofluoromethane	0.5	U
75-35-4	1,1-Dichloroethene	0.5	U
75-09-2	Methylene Chloride	0.5	U
156-60-5	trans-1,2-Dichloroethene	0.5	U
1634-04-4	Methyl tert-butyl ether	35	
75-34-3	1,1-Dichloroethane	0.5	U
156-59-2	cis-1,2-Dichloroethene	0.5	U
590-20-7	2,2-Dichloropropane	0.5	U
107-06-2	1,2-Dichloroethane	0.5	U
74-97-5	Bromochloromethane	0.5	U
67-66-3	Chloroform	0.5	U
56-23-5	Carbon Tetrachloride	0.5	U
71-55-6	1,1,1-Trichloroethane	0.5	U
563-58-6	1,1-Dichloropropene	0.5	U
79-01-6	Trichloroethene	0.5	U
78-87-5	1,2-Dichloropropane	0.5	U
71-43-2	Benzene	0.5	U
74-95-3	Dibromomethane	0.5	U
75-27-4	Bromodichloromethane	0.5	U
10061-01-5	cis-1,3-Dichloropropene	0.5	U
108-88-3	Toluene	0.5	U
10061-02-6	trans-1,3-Dichloropropene	0.5	U
79-00-5	1,1,2-Trichloroethane	0.5	U
127-18-4	Tetrachloroethene	0.5	U
142-28-9	1,3-Dichloropropane	0.5	U
124-48-1	Dibromochloromethane	0.5	U
106-93-4	1,2-Dibromoethane	0.5	U
108-90-7	Chlorobenzene	0.5	U
630-20-6	1,1,1,2-Tetrachloroethane	0.5	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

240WS-CF

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: 70853

Matrix: (soil/water) WATER Lab Sample ID: 70853017

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: V2D1159

Level: (low/med) LOW Date Received: 06/09/00

% Moisture: not dec. _____ Date Analyzed: 06/14/00

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-41-4	Ethylbenzene	0.5	U
136777-61-2	m,p-Xylene	0.5	U
95-47-6	o-Xylene	0.5	U
100-42-5	Styrene	0.5	U
75-25-2	Bromoform	0.5	U
98-82-8	Isopropylbenzene	0.5	U
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U
108-86-1	Bromobenzene	0.5	U
96-18-4	1,2,3-Trichloropropane	0.5	U
103-65-1	n-Propylbenzene	0.5	U
95-49-8	2-Chlorotoluene	0.5	U
108-67-8	1,3,5-Trimethylbenzene	0.5	U
106-43-4	4-Chlorotoluene	0.5	U
98-06-6	tert-Butylbenzene	0.5	U
95-63-6	1,2,4-Trimethylbenzene	0.5	U
135-98-8	sec-Butylbenzene	0.5	U
541-73-1	1,3-Dichlorobenzene	0.5	U
99-87-6	4-Isopropyltoluene	0.5	U
106-46-7	1,4-Dichlorobenzene	0.5	U
104-51-8	n-Butylbenzene	0.5	U
95-50-1	1,2-Dichlorobenzene	0.5	U
96-12-8	1,2-Dibromo-3-chloropropane	0.5	U
120-82-1	1,2,4-Trichlorobenzene	0.5	U
87-68-3	Hexachlorobutadiene	0.5	U
91-20-3	Naphthalene	0.5	U
87-61-6	1,2,3-Trichlorobenzene	0.5	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

240WS-CF

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: 70853

Matrix: (soil/water) WATER Lab Sample ID: 70853017

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: V2D1159

Level: (low/med) LOW Date Received: 06/09/00

% Moisture: not dec. _____ Date Analyzed: 06/14/00

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

240WS-IF

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: 70853

Matrix: (soil/water) WATER Lab Sample ID: 70853016

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: V2D1158

Level: (low/med) LOW Date Received: 06/09/00

% Moisture: not dec. _____ Date Analyzed: 06/14/00

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	0.5	U
74-87-3	Chloromethane	0.5	U
75-01-4	Vinyl Chloride	0.5	U
74-83-9	Bromomethane	0.5	U
75-00-3	Chloroethane	0.5	U
75-69-4	Trichlorofluoromethane	0.5	U
75-35-4	1,1-Dichloroethene	0.5	U
75-09-2	Methylene Chloride	0.5	U
156-60-5	trans-1,2-Dichloroethene	0.5	U
1634-04-4	Methyl tert-butyl ether	10	
75-34-3	1,1-Dichloroethane	0.5	U
156-59-2	cis-1,2-Dichloroethene	0.5	U
590-20-7	2,2-Dichloropropane	0.5	U
107-06-2	1,2-Dichloroethane	0.5	U
74-97-5	Bromochloromethane	0.5	U
67-66-3	Chloroform	0.5	U
56-23-5	Carbon Tetrachloride	0.5	U
71-55-6	1,1,1-Trichloroethane	0.5	U
563-58-6	1,1-Dichloropropene	0.5	U
79-01-6	Trichloroethene	0.5	
78-87-5	1,2-Dichloropropane	0.5	U
71-43-2	Benzene	0.5	U
74-95-3	Dibromomethane	0.5	U
75-27-4	Bromodichloromethane	0.5	U
10061-01-5	cis-1,3-Dichloropropene	0.5	U
108-88-3	Toluene	0.5	U
10061-02-6	trans-1,3-Dichloropropene	0.5	U
79-00-5	1,1,2-Trichloroethane	0.5	U
127-18-4	Tetrachloroethene	0.5	U
142-28-9	1,3-Dichloropropane	0.5	U
124-48-1	Dibromochloromethane	0.5	U
106-93-4	1,2-Dibromoethane	0.5	U
108-90-7	Chlorobenzene	0.5	U
630-20-6	1,1,1,2-Tetrachloroethane	0.5	U

AF

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

240WS-IF

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: 70853

Matrix: (soil/water) WATER Lab Sample ID: 70853016

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: V2D1158

Level: (low/med) LOW Date Received: 06/09/00

% Moisture: not dec. _____ Date Analyzed: 06/14/00

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-41-4	Ethylbenzene	0.5	U
136777-61-2	m,p-Xylene	0.5	U
95-47-6	o-Xylene	0.5	U
100-42-5	Styrene	0.5	U
75-25-2	Bromoform	0.5	U
98-82-8	Isopropylbenzene	0.5	U
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U
108-86-1	Bromobenzene	0.5	U
96-18-4	1,2,3-Trichloropropane	0.5	U
103-65-1	n-Propylbenzene	0.5	U
95-49-8	2-Chlorotoluene	0.5	U
108-67-8	1,3,5-Trimethylbenzene	0.5	U
106-43-4	4-Chlorotoluene	0.5	U
98-06-6	tert-Butylbenzene	0.5	U
95-63-6	1,2,4-Trimethylbenzene	0.5	U
135-98-8	sec-Butylbenzene	0.5	U
541-73-1	1,3-Dichlorobenzene	0.5	U
99-87-6	4-Isopropyltoluene	0.5	U
106-46-7	1,4-Dichlorobenzene	0.5	U
104-51-8	n-Butylbenzene	0.5	U
95-50-1	1,2-Dichlorobenzene	0.5	U
96-12-8	1,2-Dibromo-3-chloropropane	0.5	U
120-82-1	1,2,4-Trichlorobenzene	0.5	U
87-68-3	Hexachlorobutadiene	0.5	U
91-20-3	Naphthalene	0.5	U
87-61-6	1,2,3-Trichlorobenzene	0.5	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

240WS-IF

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: 70853

Matrix: (soil/water) WATER Lab Sample ID: 70853016

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: V2D1158

Level: (low/med) LOW Date Received: 06/09/00

% Moisture: not dec. _____ Date Analyzed: 06/14/00

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

244WS-CF

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: 70853

Matrix: (soil/water) WATER Lab Sample ID: 70853018

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: V2D1160

Level: (low/med) LOW Date Received: 06/09/00

% Moisture: not dec. _____ Date Analyzed: 06/14/00

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	0.5	U
74-87-3	Chloromethane	0.5	U
75-01-4	Vinyl Chloride	0.5	U
74-83-9	Bromomethane	0.5	U
75-00-3	Chloroethane	0.5	U
75-69-4	Trichlorofluoromethane	0.5	U
75-35-4	1,1-Dichloroethene	0.5	U
75-09-2	Methylene Chloride	0.5	U
156-60-5	trans-1,2-Dichloroethene	0.5	U
1634-04-4	Methyl tert-butyl ether	37	
75-34-3	1,1-Dichloroethane	0.5	U
156-59-2	cis-1,2-Dichloroethene	0.5	U
590-20-7	2,2-Dichloropropane	0.5	U
107-06-2	1,2-Dichloroethane	0.5	U
74-97-5	Bromochloromethane	0.5	U
67-66-3	Chloroform	0.5	U
56-23-5	Carbon Tetrachloride	0.5	U
71-55-6	1,1,1-Trichloroethane	0.5	U
563-58-6	1,1-Dichloropropene	0.5	U
79-01-6	Trichloroethene	0.5	U
78-87-5	1,2-Dichloropropane	0.5	U
71-43-2	Benzene	0.5	U
74-95-3	Dibromomethane	0.5	U
75-27-4	Bromodichloromethane	0.5	U
10061-01-5	cis-1,3-Dichloropropene	0.5	U
108-88-3	Toluene	0.5	U
10061-02-6	trans-1,3-Dichloropropene	0.5	U
79-00-5	1,1,2-Trichloroethane	0.5	U
127-18-4	Tetrachloroethene	0.5	U
142-28-9	1,3-Dichloropropane	0.5	U
124-48-1	Dibromochloromethane	0.5	U
106-93-4	1,2-Dibromoethane	0.5	U
108-90-7	Chlorobenzene	0.5	U
630-20-6	1,1,1,2-Tetrachloroethane	0.5	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

244WS-CF

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: 70853

Matrix: (soil/water) WATER Lab Sample ID: 70853018

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: V2D1160

Level: (low/med) LOW Date Received: 06/09/00

% Moisture: not dec. _____ Date Analyzed: 06/14/00

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-41-4	Ethylbenzene	0.5	U
136777-61-2	m,p-Xylene	0.5	U
95-47-6	o-Xylene	0.5	U
100-42-5	Styrene	0.5	U
75-25-2	Bromoform	0.5	U
98-82-8	Isopropylbenzene	0.5	U
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U
108-86-1	Bromobenzene	0.5	U
96-18-4	1,2,3-Trichloropropane	0.5	U
103-65-1	n-Propylbenzene	0.5	U
95-49-8	2-Chlorotoluene	0.5	U
108-67-8	1,3,5-Trimethylbenzene	0.5	U
106-43-4	4-Chlorotoluene	0.5	U
98-06-6	tert-Butylbenzene	0.5	U
95-63-6	1,2,4-Trimethylbenzene	0.5	U
135-98-8	sec-Butylbenzene	0.5	U
541-73-1	1,3-Dichlorobenzene	0.5	U
99-87-6	4-Isopropyltoluene	0.5	U
106-46-7	1,4-Dichlorobenzene	0.5	U
104-51-8	n-Butylbenzene	0.5	U
95-50-1	1,2-Dichlorobenzene	0.5	U
96-12-8	1,2-Dibromo-3-chloropropane	0.5	U
120-82-1	1,2,4-Trichlorobenzene	0.5	U
87-68-3	Hexachlorobutadiene	0.5	U
91-20-3	Naphthalene	0.5	U
87-61-6	1,2,3-Trichlorobenzene	0.5	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

244WS-CF

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: 70853

Matrix: (soil/water) WATER Lab Sample ID: 70853018

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: V2D1160

Level: (low/med) LOW Date Received: 06/09/00

% Moisture: not dec. _____ Date Analyzed: 06/14/00

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

240WS-EF

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: 70853

Matrix: (soil/water) WATER Lab Sample ID: 70853019

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: V2D1161

Level: (low/med) LOW Date Received: 06/09/00

% Moisture: not dec. _____ Date Analyzed: 06/14/00

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	0.5	U
74-87-3	Chloromethane	0.5	U
75-01-4	Vinyl Chloride	0.5	U
74-83-9	Bromomethane	0.5	U
75-00-3	Chloroethane	0.5	U
75-69-4	Trichlorofluoromethane	0.5	U
75-35-4	1,1-Dichloroethene	0.5	U
75-09-2	Methylene Chloride	0.5	U
156-60-5	trans-1,2-Dichloroethene	0.5	U
1634-04-4	Methyl tert-butyl ether	~~88~~	E 82 *
75-34-3	1,1-Dichloroethane	0.5	U
156-59-2	cis-1,2-Dichloroethene	0.5	U
590-20-7	2,2-Dichloropropane	0.5	U
107-06-2	1,2-Dichloroethane	0.5	U
74-97-5	Bromochloromethane	0.5	U
67-66-3	Chloroform	0.5	U
56-23-5	Carbon Tetrachloride	0.5	U
71-55-6	1,1,1-Trichloroethane	0.5	U
563-58-6	1,1-Dichloropropene	0.5	U
79-01-6	Trichloroethene	0.5	U
78-87-5	1,2-Dichloropropane	0.5	U
71-43-2	Benzene	0.5	U
74-95-3	Dibromomethane	0.5	U
75-27-4	Bromodichloromethane	0.5	U
10061-01-5	cis-1,3-Dichloropropene	0.5	U
108-88-3	Toluene	0.5	U
10061-02-6	trans-1,3-Dichloropropene	0.5	U
79-00-5	1,1,2-Trichloroethane	0.5	U
127-18-4	Tetrachloroethene	0.5	U
142-28-9	1,3-Dichloropropane	0.5	U
124-48-1	Dibromochloromethane	0.5	U
106-93-4	1,2-Dibromoethane	0.5	U
108-90-7	Chlorobenzene	0.5	U
630-20-6	1,1,1,2-Tetrachloroethane	0.5	U

* Value from 240WS-EF DL (DF=5)

FORM I VOA OLM03.0

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

244WS-EF

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: 70853

Matrix: (soil/water) WATER Lab Sample ID: 70853019

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: V2D1161

Level: (low/med) LOW Date Received: 06/09/00

% Moisture: not dec. _____ Date Analyzed: 06/14/00

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-41-4	Ethylbenzene	0.5	U
136777-61-2	m,p-Xylene	0.5	U
95-47-6	o-Xylene	0.5	U
100-42-5	Styrene	0.5	U
75-25-2	Bromoform	0.5	U
98-82-8	Isopropylbenzene	0.5	U
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U
108-86-1	Bromobenzene	0.5	U
96-18-4	1,2,3-Trichloropropane	0.5	U
103-65-1	n-Propylbenzene	0.5	U
95-49-8	2-Chlorotoluene	0.5	U
108-67-8	1,3,5-Trimethylbenzene	0.5	U
106-43-4	4-Chlorotoluene	0.5	U
98-06-6	tert-Butylbenzene	0.5	U
95-63-6	1,2,4-Trimethylbenzene	0.5	U
135-98-8	sec-Butylbenzene	0.5	U
541-73-1	1,3-Dichlorobenzene	0.5	U
99-87-6	4-Isopropyltoluene	0.5	U
106-46-7	1,4-Dichlorobenzene	0.5	U
104-51-8	n-Butylbenzene	0.5	U
95-50-1	1,2-Dichlorobenzene	0.5	U
96-12-8	1,2-Dibromo-3-chloropropane	0.5	U
120-82-1	1,2,4-Trichlorobenzene	0.5	U
87-68-3	Hexachlorobutadiene	0.5	U
91-20-3	Naphthalene	0.5	U
87-61-6	1,2,3-Trichlorobenzene	0.5	U

MK

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

244WS-EF

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: 70853

Matrix: (soil/water) WATER Lab Sample ID: 70853019

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: V2D1161

Level: (low/med) LOW Date Received: 06/09/00

% Moisture: not dec. _____ Date Analyzed: 06/14/00

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

24~~4~~0WS-EFDL

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: 70853

Matrix: (soil/water) WATER Lab Sample ID: 70853019DL

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: V2D1169

Level: (low/med) LOW Date Received: 06/09/00

% Moisture: not dec. _____ Date Analyzed: 06/14/00

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 5.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	2	U
74-87-3	Chloromethane	2	U
75-01-4	Vinyl Chloride	2	U
74-83-9	Bromomethane	2	U
75-00-3	Chloroethane	2	U
75-69-4	Trichlorofluoromethane	2	U
75-35-4	1,1-Dichloroethene	2	U
75-09-2	Methylene Chloride	2	U
156-60-5	trans-1,2-Dichloroethene	2	U
1634-04-4	Methyl tert-butyl ether	82	D
75-34-3	1,1-Dichloroethane	2	U
156-59-2	cis-1,2-Dichloroethene	2	U
590-20-7	2,2-Dichloropropane	2	U
107-06-2	1,2-Dichloroethane	2	U
74-97-5	Bromochloromethane	2	U
67-66-3	Chloroform	2	U
56-23-5	Carbon Tetrachloride	2	U
71-55-6	1,1,1-Trichloroethane	2	U
563-58-6	1,1-Dichloropropene	2	U
79-01-6	Trichloroethene	2	U
78-87-5	1,2-Dichloropropane	2	U
71-43-2	Benzene	2	U
74-95-3	Dibromomethane	2	U
75-27-4	Bromodichloromethane	2	U
10061-01-5	cis-1,3-Dichloropropene	2	U
108-88-3	Toluene	2	U
10061-02-6	trans-1,3-Dichloropropene	2	U
79-00-5	1,1,2-Trichloroethane	2	U
127-18-4	Tetrachloroethene	2	U
142-28-9	1,3-Dichloropropane	2	U
124-48-1	Dibromochloromethane	2	U
106-93-4	1,2-Dibromoethane	2	U
108-90-7	Chlorobenzene	2	U
630-20-6	1,1,1,2-Tetrachloroethane	2	U

FORM I VOA OLM03.0

DO NOT USE

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

244WS-EFDL

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: 70853

Matrix: (soil/water) WATER Lab Sample ID: 70853019DL

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: V2D1169

Level: (low/med) LOW Date Received: 06/09/00

% Moisture: not dec. _____ Date Analyzed: 06/14/00

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 5.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-41-4	Ethylbenzene	2	U
136777-61-2	m,p-Xylene	2	U
95-47-6	o-Xylene	2	U
100-42-5	Styrene	2	U
75-25-2	Bromoform	2	U
98-82-8	Isopropylbenzene	2	U
79-34-5	1,1,2,2-Tetrachloroethane	2	U
108-86-1	Bromobenzene	2	U
96-18-4	1,2,3-Trichloropropane	2	U
103-65-1	n-Propylbenzene	2	U
95-49-8	2-Chlorotoluene	2	U
108-67-8	1,3,5-Trimethylbenzene	2	U
106-43-4	4-Chlorotoluene	2	U
98-06-6	tert-Butylbenzene	2	U
95-63-6	1,2,4-Trimethylbenzene	2	U
135-98-8	sec-Butylbenzene	2	U
541-73-1	1,3-Dichlorobenzene	2	U
99-87-6	4-Isopropyltoluene	2	U
106-46-7	1,4-Dichlorobenzene	2	U
104-51-8	n-Butylbenzene	2	U
95-50-1	1,2-Dichlorobenzene	2	U
96-12-8	1,2-Dibromo-3-chloropropane	2	U
120-82-1	1,2,4-Trichlorobenzene	2	U
87-68-3	Hexachlorobutadiene	2	U
91-20-3	Naphthalene	2	U
87-61-6	1,2,3-Trichlorobenzene	2	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

244WS-EFDL

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: 70853

Matrix: (soil/water) WATER Lab Sample ID: 70853019DL

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: V2D1169

Level: (low/med) LOW Date Received: 06/09/00

% Moisture: not dec. _____ Date Analyzed: 06/14/00

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 5.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

246WS-CF

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: 70853

Matrix: (soil/water) WATER Lab Sample ID: 70853005

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: V2D1130

Level: (low/med) LOW Date Received: 06/09/00

% Moisture: not dec. _____ Date Analyzed: 06/13/00

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	0.5	
74-87-3	Chloromethane	0.5	U
75-01-4	Vinyl Chloride	0.5	U
74-83-9	Bromomethane	0.5	U
75-00-3	Chloroethane	0.5	U
75-69-4	Trichlorofluoromethane	0.5	U
75-35-4	1,1-Dichloroethene	0.5	U
75-09-2	Methylene Chloride	0.5	U
156-60-5	trans-1,2-Dichloroethene	0.5	U
1634-04-4	Methyl tert-butyl ether	0.5	U
75-34-3	1,1-Dichloroethane	0.5	U
156-59-2	cis-1,2-Dichloroethene	0.5	U
590-20-7	2,2-Dichloropropane	0.5	U
107-06-2	1,2-Dichloroethane	0.5	U
74-97-5	Bromochloromethane	0.5	U
67-66-3	Chloroform	0.5	U
56-23-5	Carbon Tetrachloride	0.5	U
71-55-6	1,1,1-Trichloroethane	0.5	U
563-58-6	1,1-Dichloropropene	0.5	U
79-01-6	Trichloroethene	0.5	U
78-87-5	1,2-Dichloropropane	0.5	U
71-43-2	Benzene	0.5	U
74-95-3	Dibromomethane	0.5	U
75-27-4	Bromodichloromethane	0.5	U
10061-01-5	cis-1,3-Dichloropropene	0.5	U
108-88-3	Toluene	0.5	U
10061-02-6	trans-1,3-Dichloropropene	0.5	U
79-00-5	1,1,2-Trichloroethane	0.5	U
127-18-4	Tetrachloroethene	0.5	U
142-28-9	1,3-Dichloropropane	0.5	U
124-48-1	Dibromochloromethane	0.5	U
106-93-4	1,2-Dibromoethane	0.5	U
108-90-7	Chlorobenzene	0.5	U
630-20-6	1,1,1,2-Tetrachloroethane	0.5	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

246WS-CF

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: 70853

Matrix: (soil/water) WATER Lab Sample ID: 70853005

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: V2D1130

Level: (low/med) LOW Date Received: 06/09/00

% Moisture: not dec. _____ Date Analyzed: 06/13/00

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-41-4	Ethylbenzene	0.5	U
136777-61-2	m,p-Xylene	0.5	U
95-47-6	o-Xylene	0.5	U
100-42-5	Styrene	0.5	U
75-25-2	Bromoform	0.5	U
98-82-8	Isopropylbenzene	0.5	U
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U
108-86-1	Bromobenzene	0.5	U
96-18-4	1,2,3-Trichloropropane	0.5	U
103-65-1	n-Propylbenzene	0.5	U
95-49-8	2-Chlorotoluene	0.5	U
108-67-8	1,3,5-Trimethylbenzene	0.5	U
106-43-4	4-Chlorotoluene	0.5	U
98-06-6	tert-Butylbenzene	0.5	U
95-63-6	1,2,4-Trimethylbenzene	0.5	U
135-98-8	sec-Butylbenzene	0.5	U
541-73-1	1,3-Dichlorobenzene	0.5	U
99-87-6	4-Isopropyltoluene	0.5	U
106-46-7	1,4-Dichlorobenzene	0.5	U
104-51-8	n-Butylbenzene	0.5	U
95-50-1	1,2-Dichlorobenzene	0.5	U
96-12-8	1,2-Dibromo-3-chloropropane	0.5	U
120-82-1	1,2,4-Trichlorobenzene	0.5	U
87-68-3	Hexachlorobutadiene	0.5	U
91-20-3	Naphthalene	0.5	U
87-61-6	1,2,3-Trichlorobenzene	0.5	U

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1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

246WS-CF

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: 70853

Matrix: (soil/water) WATER Lab Sample ID: 70853005

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: V2D1130

Level: (low/med) LOW Date Received: 06/09/00

% Moisture: not dec. _____ Date Analyzed: 06/13/00

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

246WS-EF

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: 70853

Matrix: (soil/water) WATER Lab Sample ID: 70853006

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: V2D1131

Level: (low/med) LOW Date Received: 06/09/00

% Moisture: not dec. _____ Date Analyzed: 06/13/00

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	0.5	U
74-87-3	Chloromethane	0.5	U
75-01-4	Vinyl Chloride	0.5	U
74-83-9	Bromomethane	0.5	U
75-00-3	Chloroethane	0.5	U
75-69-4	Trichlorofluoromethane	0.5	U
75-35-4	1,1-Dichloroethene	0.5	U
75-09-2	Methylene Chloride	0.5	U
156-60-5	trans-1,2-Dichloroethene	0.5	U
1634-04-4	Methyl tert-butyl ether	0.5	U
75-34-3	1,1-Dichloroethane	0.5	U
156-59-2	cis-1,2-Dichloroethene	0.5	U
590-20-7	2,2-Dichloropropane	0.5	U
107-06-2	1,2-Dichloroethane	0.5	U
74-97-5	Bromochloromethane	0.5	U
67-66-3	Chloroform	0.5	U
56-23-5	Carbon Tetrachloride	0.5	U
71-55-6	1,1,1-Trichloroethane	0.5	U
563-58-6	1,1-Dichloropropene	0.5	U
79-01-6	Trichloroethene	0.5	U
78-87-5	1,2-Dichloropropane	0.5	U
71-43-2	Benzene	0.5	U
74-95-3	Dibromomethane	0.5	U
75-27-4	Bromodichloromethane	0.5	U
10061-01-5	cis-1,3-Dichloropropene	0.5	U
108-88-3	Toluene	0.5	U
10061-02-6	trans-1,3-Dichloropropene	0.5	U
79-00-5	1,1,2-Trichloroethane	0.5	U
127-18-4	Tetrachloroethene	0.5	U
142-28-9	1,3-Dichloropropane	0.5	U
124-48-1	Dibromochloromethane	0.5	U
106-93-4	1,2-Dibromoethane	0.5	U
108-90-7	Chlorobenzene	0.5	U
630-20-6	1,1,1,2-Tetrachloroethane	0.5	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

246WS-EF

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: 70853

Matrix: (soil/water) WATER Lab Sample ID: 70853006

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: V2D1131

Level: (low/med) LOW Date Received: 06/09/00

% Moisture: not dec. _____ Date Analyzed: 06/13/00

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-41-4	Ethylbenzene	0.5	U
136777-61-2	m,p-Xylene	0.5	U
95-47-6	o-Xylene	0.5	U
100-42-5	Styrene	0.5	U
75-25-2	Bromoform	0.5	U
98-82-8	Isopropylbenzene	0.5	U
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U
108-86-1	Bromobenzene	0.5	U
96-18-4	1,2,3-Trichloropropane	0.5	U
103-65-1	n-Propylbenzene	0.5	U
95-49-8	2-Chlorotoluene	0.5	U
108-67-8	1,3,5-Trimethylbenzene	0.5	U
106-43-4	4-Chlorotoluene	0.5	U
98-06-6	tert-Butylbenzene	0.5	U
95-63-6	1,2,4-Trimethylbenzene	0.5	U
135-98-8	sec-Butylbenzene	0.5	U
541-73-1	1,3-Dichlorobenzene	0.5	U
99-87-6	4-Isopropyltoluene	0.5	U
106-46-7	1,4-Dichlorobenzene	0.5	U
104-51-8	n-Butylbenzene	0.5	U
95-50-1	1,2-Dichlorobenzene	0.5	U
96-12-8	1,2-Dibromo-3-chloropropane	0.5	U
120-82-1	1,2,4-Trichlorobenzene	0.5	U
87-68-3	Hexachlorobutadiene	0.5	U
91-20-3	Naphthalene	0.5	U
87-61-6	1,2,3-Trichlorobenzene	0.5	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

246WS-EF

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: 70853

Matrix: (soil/water) WATER Lab Sample ID: 70853006

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: V2D1131

Level: (low/med) LOW Date Received: 06/09/00

% Moisture: not dec. _____ Date Analyzed: 06/13/00

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

246WS-IF

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: 70853

Matrix: (soil/water) WATER Lab Sample ID: 70853004

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: V2D1129

Level: (low/med) LOW Date Received: 06/09/00

% Moisture: not dec. _____ Date Analyzed: 06/13/00

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	0.5	U
74-87-3	Chloromethane	0.5	U
75-01-4	Vinyl Chloride	0.5	U
74-83-9	Bromomethane	0.5	U
75-00-3	Chloroethane	0.5	U
75-69-4	Trichlorofluoromethane	0.5	U
75-35-4	1,1-Dichloroethene	0.5	U
75-09-2	Methylene Chloride	0.5	U
156-60-5	trans-1,2-Dichloroethene	0.5	U
1634-04-4	Methyl tert-butyl ether	0.5	U
75-34-3	1,1-Dichloroethane	0.5	U
156-59-2	cis-1,2-Dichloroethene	7	
590-20-7	2,2-Dichloropropane	~~0.5~~	~~U~~
107-06-2	1,2-Dichloroethane	0.5	U
74-97-5	Bromochloromethane	0.5	U
67-66-3	Chloroform	0.5	U
56-23-5	Carbon Tetrachloride	0.5	U
71-55-6	1,1,1-Trichloroethane	0.5	U
563-58-6	1,1-Dichloropropene	~~0.5~~	~~U~~
79-01-6	Trichloroethene	30	
78-87-5	1,2-Dichloropropane	0.5	U
71-43-2	Benzene	0.5	U
74-95-3	Dibromomethane	0.5	U
75-27-4	Bromodichloromethane	0.5	U
10061-01-5	cis-1,3-Dichloropropene	0.5	U
108-88-3	Toluene	0.5	U
10061-02-6	trans-1,3-Dichloropropene	0.5	U
79-00-5	1,1,2-Trichloroethane	0.5	U
127-18-4	Tetrachloroethene	0.5	U
142-28-9	1,3-Dichloropropane	0.5	U
124-48-1	Dibromochloromethane	0.5	U
106-93-4	1,2-Dibromoethane	0.5	U
108-90-7	Chlorobenzene	0.5	U
630-20-6	1,1,1,2-Tetrachloroethane	0.5	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

246WS-IF

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: 70853

Matrix: (soil/water) WATER Lab Sample ID: 70853004

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: V2D1129

Level: (low/med) LOW Date Received: 06/09/00

% Moisture: not dec. _____ Date Analyzed: 06/13/00

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-41-4	Ethylbenzene	0.5	U
136777-61-2	m,p-Xylene	0.5	U
95-47-6	o-Xylene	0.5	U
100-42-5	Styrene	0.5	U
75-25-2	Bromoform	0.5	U
98-82-8	Isopropylbenzene	0.5	U
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U
108-86-1	Bromobenzene	0.5	U
96-18-4	1,2,3-Trichloropropane	0.5	U
103-65-1	n-Propylbenzene	0.5	U
95-49-8	2-Chlorotoluene	0.5	U
108-67-8	1,3,5-Trimethylbenzene	0.5	U
106-43-4	4-Chlorotoluene	0.5	U
98-06-6	tert-Butylbenzene	0.5	U
95-63-6	1,2,4-Trimethylbenzene	0.5	U
135-98-8	sec-Butylbenzene	0.5	U
541-73-1	1,3-Dichlorobenzene	0.5	U
99-87-6	4-Isopropyltoluene	0.5	U
106-46-7	1,4-Dichlorobenzene	0.5	U
104-51-8	n-Butylbenzene	0.5	U
95-50-1	1,2-Dichlorobenzene	0.5	U
96-12-8	1,2-Dibromo-3-chloropropane	0.5	U
120-82-1	1,2,4-Trichlorobenzene	0.5	U
87-68-3	Hexachlorobutadiene	0.5	U
91-20-3	Naphthalene	0.5	U
87-61-6	1,2,3-Trichlorobenzene	0.5	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

246WS-IF

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: 70853

Matrix: (soil/water) WATER Lab Sample ID: 70853004

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: V2D1129

Level: (low/med) LOW Date Received: 06/09/00

% Moisture: not dec. _____ Date Analyzed: 06/13/00

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

247WS-CF

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: 70853

Matrix: (soil/water) WATER Lab Sample ID: 70853014

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: V2D1156

Level: (low/med) LOW Date Received: 06/09/00

% Moisture: not dec. _____ Date Analyzed: 06/14/00

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	0.5	U
74-87-3	Chloromethane	0.5	U
75-01-4	Vinyl Chloride	0.5	U
74-83-9	Bromomethane	0.5	U
75-00-3	Chloroethane	0.5	U
75-69-4	Trichlorofluoromethane	0.5	U
75-35-4	1,1-Dichloroethene	0.5	U
75-09-2	Methylene Chloride	0.5	U
156-60-5	trans-1,2-Dichloroethene	0.5	U
1634-04-4	Methyl tert-butyl ether	0.5	U
75-34-3	1,1-Dichloroethane	0.5	U
156-59-2	cis-1,2-Dichloroethene	0.5	U
590-20-7	2,2-Dichloropropane	0.5	U
107-06-2	1,2-Dichloroethane	0.5	U
74-97-5	Bromochloromethane	0.5	U
67-66-3	Chloroform	0.5	U
56-23-5	Carbon Tetrachloride	0.5	U
71-55-6	1,1,1-Trichloroethane	0.5	U
563-58-6	1,1-Dichloropropene	0.5	U
79-01-6	Trichloroethene	0.5	U
78-87-5	1,2-Dichloropropane	0.5	U
71-43-2	Benzene	0.5	U
74-95-3	Dibromomethane	0.5	U
75-27-4	Bromodichloromethane	0.5	U
10061-01-5	cis-1,3-Dichloropropene	0.5	U
108-88-3	Toluene	0.5	U
10061-02-6	trans-1,3-Dichloropropene	0.5	U
79-00-5	1,1,2-Trichloroethane	0.5	U
127-18-4	Tetrachloroethene	0.5	U
142-28-9	1,3-Dichloropropane	0.5	U
124-48-1	Dibromochloromethane	0.5	U
106-93-4	1,2-Dibromoethane	0.5	U
108-90-7	Chlorobenzene	0.5	U
630-20-6	1,1,1,2-Tetrachloroethane	0.5	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

247WS-CF

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: 70853

Matrix: (soil/water) WATER Lab Sample ID: 70853014

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: V2D1156

Level: (low/med) LOW Date Received: 06/09/00

% Moisture: not dec. _____ Date Analyzed: 06/14/00

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-41-4	Ethylbenzene	0.5	U
136777-61-2	m,p-Xylene	0.5	U
95-47-6	o-Xylene	0.5	U
100-42-5	Styrene	0.5	U
75-25-2	Bromoform	0.5	U
98-82-8	Isopropylbenzene	0.5	U
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U
108-86-1	Bromobenzene	0.5	U
96-18-4	1,2,3-Trichloropropane	0.5	U
103-65-1	n-Propylbenzene	0.5	U
95-49-8	2-Chlorotoluene	0.5	U
108-67-8	1,3,5-Trimethylbenzene	0.5	U
106-43-4	4-Chlorotoluene	0.5	U
98-06-6	tert-Butylbenzene	0.5	U
95-63-6	1,2,4-Trimethylbenzene	0.5	U
135-98-8	sec-Butylbenzene	0.5	U
541-73-1	1,3-Dichlorobenzene	0.5	U
99-87-6	4-Isopropyltoluene	0.5	U
106-46-7	1,4-Dichlorobenzene	0.5	U
104-51-8	n-Butylbenzene	0.5	U
95-50-1	1,2-Dichlorobenzene	0.5	U
96-12-8	1,2-Dibromo-3-chloropropane	0.5	U
120-82-1	1,2,4-Trichlorobenzene	0.5	U
87-68-3	Hexachlorobutadiene	0.5	U
91-20-3	Naphthalene	0.5	U
87-61-6	1,2,3-Trichlorobenzene	0.5	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

247WS-CF

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: 70853

Matrix: (soil/water) WATER Lab Sample ID: 70853014

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: V2D1156

Level: (low/med) LOW Date Received: 06/09/00

% Moisture: not dec. _____ Date Analyzed: 06/14/00

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

247WS-EF

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: 70853

Matrix: (soil/water) WATER Lab Sample ID: 70853015

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: V2D1157

Level: (low/med) LOW Date Received: 06/09/00

% Moisture: not dec. _____ Date Analyzed: 06/14/00

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	0.5	U
74-87-3	Chloromethane	0.5	U
75-01-4	Vinyl Chloride	0.5	U
74-83-9	Bromomethane	0.5	U
75-00-3	Chloroethane	0.5	U
75-69-4	Trichlorofluoromethane	0.5	U
75-35-4	1,1-Dichloroethene	0.5	U
75-09-2	Methylene Chloride	0.5	U
156-60-5	trans-1,2-Dichloroethene	0.5	U
1634-04-4	Methyl tert-butyl ether	0.5	U
75-34-3	1,1-Dichloroethane	0.5	U
156-59-2	cis-1,2-Dichloroethene	0.5	U
590-20-7	2,2-Dichloropropane	0.5	U
107-06-2	1,2-Dichloroethane	0.5	U
74-97-5	Bromochloromethane	0.5	U
67-66-3	Chloroform	0.5	U
56-23-5	Carbon Tetrachloride	0.5	U
71-55-6	1,1,1-Trichloroethane	0.5	U
563-58-6	1,1-Dichloropropene	0.5	U
79-01-6	Trichloroethene	0.5	U
78-87-5	1,2-Dichloropropane	0.5	U
71-43-2	Benzene	0.5	U
74-95-3	Dibromomethane	0.5	U
75-27-4	Bromodichloromethane	0.5	U
10061-01-5	cis-1,3-Dichloropropene	0.5	U
108-88-3	Toluene	0.5	U
10061-02-6	trans-1,3-Dichloropropene	0.5	U
79-00-5	1,1,2-Trichloroethane	0.5	U
127-18-4	Tetrachloroethene	0.5	U
142-28-9	1,3-Dichloropropane	0.5	U
124-48-1	Dibromochloromethane	0.5	U
106-93-4	1,2-Dibromoethane	0.5	U
108-90-7	Chlorobenzene	0.5	U
630-20-6	1,1,1,2-Tetrachloroethane	0.5	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

247WS-EF

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: 70853

Matrix: (soil/water) WATER Lab Sample ID: 70853015

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: V2D1157

Level: (low/med) LOW Date Received: 06/09/00

% Moisture: not dec. _____ Date Analyzed: 06/14/00

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-41-4	Ethylbenzene	0.5	U
136777-61-2	m,p-Xylene	0.5	U
95-47-6	o-Xylene	0.5	U
100-42-5	Styrene	0.5	U
75-25-2	Bromoform	0.5	U
98-82-8	Isopropylbenzene	0.5	U
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U
108-86-1	Bromobenzene	0.5	U
96-18-4	1,2,3-Trichloropropane	0.5	U
103-65-1	n-Propylbenzene	0.5	U
95-49-8	2-Chlorotoluene	0.5	U
108-67-8	1,3,5-Trimethylbenzene	0.5	U
106-43-4	4-Chlorotoluene	0.5	U
98-06-6	tert-Butylbenzene	0.5	U
95-63-6	1,2,4-Trimethylbenzene	0.5	U
135-98-8	sec-Butylbenzene	0.5	U
541-73-1	1,3-Dichlorobenzene	0.5	U
99-87-6	4-Isopropyltoluene	0.5	U
106-46-7	1,4-Dichlorobenzene	0.5	U
104-51-8	n-Butylbenzene	0.5	U
95-50-1	1,2-Dichlorobenzene	0.5	U
96-12-8	1,2-Dibromo-3-chloropropane	0.5	U
120-82-1	1,2,4-Trichlorobenzene	0.5	U
87-68-3	Hexachlorobutadiene	0.5	U
91-20-3	Naphthalene	0.5	U
87-61-6	1,2,3-Trichlorobenzene	0.5	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

247WS-EF

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: 70853

Matrix: (soil/water) WATER Lab Sample ID: 70853015

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: V2D1157

Level: (low/med) LOW Date Received: 06/09/00

% Moisture: not dec. _____ Date Analyzed: 06/14/00

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

247WS-IF

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: 70853

Matrix: (soil/water) WATER Lab Sample ID: 70853013

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: V2D1155

Level: (low/med) LOW Date Received: 06/09/00

% Moisture: not dec. _____ Date Analyzed: 06/14/00

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	0.5	U
74-87-3	Chloromethane	0.5	U
75-01-4	Vinyl Chloride	0.5	U
74-83-9	Bromomethane	0.5	U
75-00-3	Chloroethane	0.5	U
75-69-4	Trichlorofluoromethane	0.5	U
75-35-4	1,1-Dichloroethene	0.5	U
75-09-2	Methylene Chloride	0.5	U
156-60-5	trans-1,2-Dichloroethene	0.5	U
1634-04-4	Methyl tert-butyl ether	0.5	U
75-34-3	1,1-Dichloroethane	0.5	U
156-59-2	cis-1,2-Dichloroethene	0.5	U
590-20-7	2,2-Dichloropropane	0.5	U
107-06-2	1,2-Dichloroethane	0.5	U
74-97-5	Bromochloromethane	0.5	U
67-66-3	Chloroform	0.5	U
56-23-5	Carbon Tetrachloride	0.5	U
71-55-6	1,1,1-Trichloroethane	0.5	U
563-58-6	1,1-Dichloropropene	0.5	U
79-01-6	Trichloroethene	0.5	U
78-87-5	1,2-Dichloropropane	0.5	U
71-43-2	Benzene	0.5	U
74-95-3	Dibromomethane	0.5	U
75-27-4	Bromodichloromethane	0.5	U
10061-01-5	cis-1,3-Dichloropropene	0.5	U
108-88-3	Toluene	0.5	U
10061-02-6	trans-1,3-Dichloropropene	0.5	U
79-00-5	1,1,2-Trichloroethane	0.5	U
127-18-4	Tetrachloroethene	0.5	U
142-28-9	1,3-Dichloropropane	0.5	U
124-48-1	Dibromochloromethane	0.5	U
106-93-4	1,2-Dibromoethane	0.5	U
108-90-7	Chlorobenzene	0.5	U
630-20-6	1,1,1,2-Tetrachloroethane	0.5	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

247WS-IF

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: 70853

Matrix: (soil/water) WATER Lab Sample ID: 70853013

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: V2D1155

Level: (low/med) LOW Date Received: 06/09/00

% Moisture: not dec. _____ Date Analyzed: 06/14/00

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-41-4	Ethylbenzene	0.5	U
136777-61-2	m,p-Xylene	0.5	U
95-47-6	o-Xylene	0.5	U
100-42-5	Styrene	0.5	U
75-25-2	Bromoform	0.5	U
98-82-8	Isopropylbenzene	0.5	U
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U
108-86-1	Bromobenzene	0.5	U
96-18-4	1,2,3-Trichloropropane	0.5	U
103-65-1	n-Propylbenzene	0.5	U
95-49-8	2-Chlorotoluene	0.5	U
108-67-8	1,3,5-Trimethylbenzene	0.5	U
106-43-4	4-Chlorotoluene	0.5	U
98-06-6	tert-Butylbenzene	0.5	U
95-63-6	1,2,4-Trimethylbenzene	0.5	U
135-98-8	sec-Butylbenzene	0.5	U
541-73-1	1,3-Dichlorobenzene	0.5	U
99-87-6	4-Isopropyltoluene	0.5	U
106-46-7	1,4-Dichlorobenzene	0.5	U
104-51-8	n-Butylbenzene	0.5	U
95-50-1	1,2-Dichlorobenzene	0.5	U
96-12-8	1,2-Dibromo-3-chloropropane	0.5	U
120-82-1	1,2,4-Trichlorobenzene	0.5	U
87-68-3	Hexachlorobutadiene	0.5	U
91-20-3	Naphthalene	0.5	U
87-61-6	1,2,3-Trichlorobenzene	0.5	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

247WS-IF

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: 70853

Matrix: (soil/water) WATER Lab Sample ID: 70853013

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: V2D1155

Level: (low/med) LOW Date Received: 06/09/00

% Moisture: not dec. _____ Date Analyzed: 06/14/00

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

250WS-CF

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: 70853

Matrix: (soil/water) WATER Lab Sample ID: 70853011

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: V2D1136

Level: (low/med) LOW Date Received: 06/09/00

% Moisture: not dec. _____ Date Analyzed: 06/13/00

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	1	
74-87-3	Chloromethane	0.5	U
75-01-4	Vinyl Chloride	0.5	U
74-83-9	Bromomethane	0.5	U
75-00-3	Chloroethane	0.5	U
75-69-4	Trichlorofluoromethane	0.5	U
75-35-4	1,1-Dichloroethene	0.5	U
75-09-2	Methylene Chloride	0.5	U
156-60-5	trans-1,2-Dichloroethene	0.5	U
1634-04-4	Methyl tert-butyl ether	0.5	U
75-34-3	1,1-Dichloroethane	0.5	U
156-59-2	cis-1,2-Dichloroethene	0.5	U
590-20-7	2,2-Dichloropropane	0.5	U
107-06-2	1,2-Dichloroethane	0.5	U
74-97-5	Bromochloromethane	0.5	U
67-66-3	Chloroform	0.5	U
56-23-5	Carbon Tetrachloride	0.5	U
71-55-6	1,1,1-Trichloroethane	0.5	U
563-58-6	1,1-Dichloropropene	0.5	U
79-01-6	Trichloroethene	0.5	U
78-87-5	1,2-Dichloropropane	0.5	U
71-43-2	Benzene	0.5	U
74-95-3	Dibromomethane	0.5	U
75-27-4	Bromodichloromethane	0.5	U
10061-01-5	cis-1,3-Dichloropropene	0.5	U
108-88-3	Toluene	0.5	U
10061-02-6	trans-1,3-Dichloropropene	0.5	U
79-00-5	1,1,2-Trichloroethane	0.5	U
127-18-4	Tetrachloroethene	0.5	U
142-28-9	1,3-Dichloropropane	0.5	U
124-48-1	Dibromochloromethane	0.5	U
106-93-4	1,2-Dibromoethane	0.5	U
108-90-7	Chlorobenzene	0.5	U
630-20-6	1,1,1,2-Tetrachloroethane	0.5	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

250WS-CF

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: 70853

Matrix: (soil/water) WATER Lab Sample ID: 70853011

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: V2D1136

Level: (low/med) LOW Date Received: 06/09/00

% Moisture: not dec. _____ Date Analyzed: 06/13/00

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-41-4	Ethylbenzene	0.5	U
136777-61-2	m,p-Xylene	0.5	U
95-47-6	o-Xylene	0.5	U
100-42-5	Styrene	0.5	U
75-25-2	Bromoform	0.5	U
98-82-8	Isopropylbenzene	0.5	U
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U
108-86-1	Bromobenzene	0.5	U
96-18-4	1,2,3-Trichloropropane	0.5	U
103-65-1	n-Propylbenzene	0.5	U
95-49-8	2-Chlorotoluene	0.5	U
108-67-8	1,3,5-Trimethylbenzene	0.5	U
106-43-4	4-Chlorotoluene	0.5	U
98-06-6	tert-Butylbenzene	0.5	U
95-63-6	1,2,4-Trimethylbenzene	0.5	U
135-98-8	sec-Butylbenzene	0.5	U
541-73-1	1,3-Dichlorobenzene	0.5	U
99-87-6	4-Isopropyltoluene	0.5	U
106-46-7	1,4-Dichlorobenzene	0.5	U
104-51-8	n-Butylbenzene	0.5	U
95-50-1	1,2-Dichlorobenzene	0.5	U
96-12-8	1,2-Dibromo-3-chloropropane	0.5	U
120-82-1	1,2,4-Trichlorobenzene	0.5	U
87-68-3	Hexachlorobutadiene	0.5	U
91-20-3	Naphthalene	0.5	U
87-61-6	1,2,3-Trichlorobenzene	0.5	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

250WS-CF

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: 70853

Matrix: (soil/water) WATER Lab Sample ID: 70853011

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: V2D1136

Level: (low/med) LOW Date Received: 06/09/00

% Moisture: not dec. _____ Date Analyzed: 06/13/00

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

250WS-EF

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: 70853

Matrix: (soil/water) WATER Lab Sample ID: 70853012

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: V2D1154

Level: (low/med) LOW Date Received: 06/09/00

% Moisture: not dec. _____ Date Analyzed: 06/14/00

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	0.5	U
74-87-3	Chloromethane	0.5	U
75-01-4	Vinyl Chloride	0.5	U
74-83-9	Bromomethane	0.5	U
75-00-3	Chloroethane	0.5	U
75-69-4	Trichlorofluoromethane	0.5	U
75-35-4	1,1-Dichloroethene	0.5	U
75-09-2	Methylene Chloride	0.5	U
156-60-5	trans-1,2-Dichloroethene	0.5	U
1634-04-4	Methyl tert-butyl ether	0.5	U
75-34-3	1,1-Dichloroethane	0.5	U
156-59-2	cis-1,2-Dichloroethene	0.5	U
590-20-7	2,2-Dichloropropane	0.5	U
107-06-2	1,2-Dichloroethane	0.5	U
74-97-5	Bromochloromethane	0.5	U
67-66-3	Chloroform	0.5	U
56-23-5	Carbon Tetrachloride	0.5	U
71-55-6	1,1,1-Trichloroethane	0.5	U
563-58-6	1,1-Dichloropropene	0.5	U
79-01-6	Trichloroethene	0.5	U
78-87-5	1,2-Dichloropropane	0.5	U
71-43-2	Benzene	0.5	U
74-95-3	Dibromomethane	0.5	U
75-27-4	Bromodichloromethane	0.5	U
10061-01-5	cis-1,3-Dichloropropene	0.5	U
108-88-3	Toluene	0.5	U
10061-02-6	trans-1,3-Dichloropropene	0.5	U
79-00-5	1,1,2-Trichloroethane	0.5	U
127-18-4	Tetrachloroethene	0.5	U
142-28-9	1,3-Dichloropropane	0.5	U
124-48-1	Dibromochloromethane	0.5	U
106-93-4	1,2-Dibromoethane	0.5	U
108-90-7	Chlorobenzene	0.5	U
630-20-6	1,1,1,2-Tetrachloroethane	0.5	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

250WS-EF

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: 70853

Matrix: (soil/water) WATER Lab Sample ID: 70853012

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: V2D1154

Level: (low/med) LOW Date Received: 06/09/00

% Moisture: not dec. _____ Date Analyzed: 06/14/00

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-41-4	Ethylbenzene	0.5	U
136777-61-2	m,p-Xylene	0.5	U
95-47-6	o-Xylene	0.5	U
100-42-5	Styrene	0.5	U
75-25-2	Bromoform	0.5	U
98-82-8	Isopropylbenzene	0.5	U
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U
108-86-1	Bromobenzene	0.5	U
96-18-4	1,2,3-Trichloropropane	0.5	U
103-65-1	n-Propylbenzene	0.5	U
95-49-8	2-Chlorotoluene	0.5	U
108-67-8	1,3,5-Trimethylbenzene	0.5	U
106-43-4	4-Chlorotoluene	0.5	U
98-06-6	tert-Butylbenzene	0.5	U
95-63-6	1,2,4-Trimethylbenzene	0.5	U
135-98-8	sec-Butylbenzene	0.5	U
541-73-1	1,3-Dichlorobenzene	0.5	U
99-87-6	4-Isopropyltoluene	0.5	U
106-46-7	1,4-Dichlorobenzene	0.5	U
104-51-8	n-Butylbenzene	0.5	U
95-50-1	1,2-Dichlorobenzene	0.5	U
96-12-8	1,2-Dibromo-3-chloropropane	0.5	U
120-82-1	1,2,4-Trichlorobenzene	0.5	U
87-68-3	Hexachlorobutadiene	0.5	U
91-20-3	Naphthalene	0.5	U
87-61-6	1,2,3-Trichlorobenzene	0.5	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

250WS-EF

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: 70853

Matrix: (soil/water) WATER Lab Sample ID: 70853012

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: V2D1154

Level: (low/med) LOW Date Received: 06/09/00

% Moisture: not dec. _____ Date Analyzed: 06/14/00

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

250WS-IF

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: 70853

Matrix: (soil/water) WATER Lab Sample ID: 70853010

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: V2D1135

Level: (low/med) LOW Date Received: 06/09/00

% Moisture: not dec. _____ Date Analyzed: 06/13/00

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	4	
74-87-3	Chloromethane	0.5	U
75-01-4	Vinyl Chloride	0.5	U
74-83-9	Bromomethane	0.5	U
75-00-3	Chloroethane	0.5	U
75-69-4	Trichlorofluoromethane	0.5	U
75-35-4	1,1-Dichloroethene	0.5	U
75-09-2	Methylene Chloride	0.5	U
156-60-5	trans-1,2-Dichloroethene	0.5	U
1634-04-4	Methyl tert-butyl ether	0.5	U
75-34-3	1,1-Dichloroethane	0.5	U
156-59-2	cis-1,2-Dichloroethene	0.5	U
590-20-7	2,2-Dichloropropane	0.5	U
107-06-2	1,2-Dichloroethane	0.5	U
74-97-5	Bromochloromethane	0.5	U
67-66-3	Chloroform	0.5	U
56-23-5	Carbon Tetrachloride	0.5	U
71-55-6	1,1,1-Trichloroethane	0.5	U
563-58-6	1,1-Dichloropropene	0.5	U
79-01-6	Trichloroethene	7	
78-87-5	1,2-Dichloropropane	0.5	U
71-43-2	Benzene	0.5	U
74-95-3	Dibromomethane	0.5	U
75-27-4	Bromodichloromethane	0.5	U
10061-01-5	cis-1,3-Dichloropropene	0.5	U
108-88-3	Toluene	0.5	U
10061-02-6	trans-1,3-Dichloropropene	0.5	U
79-00-5	1,1,2-Trichloroethane	0.5	U
127-18-4	Tetrachloroethene	0.5	U
142-28-9	1,3-Dichloropropane	0.5	U
124-48-1	Dibromochloromethane	0.5	U
106-93-4	1,2-Dibromoethane	0.5	U
108-90-7	Chlorobenzene	0.5	U
630-20-6	1,1,1,2-Tetrachloroethane	0.5	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

250WS-IF

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: 70853

Matrix: (soil/water) WATER Lab Sample ID: 70853010

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: V2D1135

Level: (low/med) LOW Date Received: 06/09/00

% Moisture: not dec. _____ Date Analyzed: 06/13/00

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-41-4	Ethylbenzene	0.5	U
136777-61-2	m,p-Xylene	0.5	U
95-47-6	o-Xylene	0.5	U
100-42-5	Styrene	0.5	U
75-25-2	Bromoform	0.5	U
98-82-8	Isopropylbenzene	0.5	U
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U
108-86-1	Bromobenzene	0.5	U
96-18-4	1,2,3-Trichloropropane	0.5	U
103-65-1	n-Propylbenzene	0.5	U
95-49-8	2-Chlorotoluene	0.5	U
108-67-8	1,3,5-Trimethylbenzene	0.5	U
106-43-4	4-Chlorotoluene	0.5	U
98-06-6	tert-Butylbenzene	0.5	U
95-63-6	1,2,4-Trimethylbenzene	0.5	U
135-98-8	sec-Butylbenzene	0.5	U
541-73-1	1,3-Dichlorobenzene	0.5	U
99-87-6	4-Isopropyltoluene	0.5	U
106-46-7	1,4-Dichlorobenzene	0.5	U
104-51-8	n-Butylbenzene	0.5	U
95-50-1	1,2-Dichlorobenzene	0.5	U
96-12-8	1,2-Dibromo-3-chloropropane	0.5	U
120-82-1	1,2,4-Trichlorobenzene	0.5	U
87-68-3	Hexachlorobutadiene	0.5	U
91-20-3	Naphthalene	0.5	U
87-61-6	1,2,3-Trichlorobenzene	0.5	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

250WS-IF

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: 70853

Matrix: (soil/water) WATER Lab Sample ID: 70853010

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: V2D1135

Level: (low/med) LOW Date Received: 06/09/00

% Moisture: not dec. _____ Date Analyzed: 06/13/00

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TB-01

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: 70853

Matrix: (soil/water) WATER Lab Sample ID: 70853020

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: V2D1162

Level: (low/med) LOW Date Received: 06/09/00

% Moisture: not dec. _____ Date Analyzed: 06/14/00

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	0.5	U
74-87-3	Chloromethane	0.5	U
75-01-4	Vinyl Chloride	0.5	U
74-83-9	Bromomethane	0.5	U
75-00-3	Chloroethane	0.5	U
75-69-4	Trichlorofluoromethane	0.5	U
75-35-4	1,1-Dichloroethene	0.5	U
75-09-2	Methylene Chloride	0.5	U
156-60-5	trans-1,2-Dichloroethene	0.5	U
1634-04-4	Methyl tert-butyl ether	0.5	U
75-34-3	1,1-Dichloroethane	0.5	U
156-59-2	cis-1,2-Dichloroethene	0.5	U
590-20-7	2,2-Dichloropropane	0.5	U
107-06-2	1,2-Dichloroethane	0.5	U
74-97-5	Bromochloromethane	0.5	U
67-66-3	Chloroform	0.5	U
56-23-5	Carbon Tetrachloride	0.5	U
71-55-6	1,1,1-Trichloroethane	0.5	U
563-58-6	1,1-Dichloropropene	0.5	U
79-01-6	Trichloroethene	0.5	U
78-87-5	1,2-Dichloropropane	0.5	U
71-43-2	Benzene	0.5	U
74-95-3	Dibromomethane	0.5	U
75-27-4	Bromodichloromethane	0.5	U
10061-01-5	cis-1,3-Dichloropropene	0.5	U
108-88-3	Toluene	0.5	U
10061-02-6	trans-1,3-Dichloropropene	0.5	U
79-00-5	1,1,2-Trichloroethane	0.5	U
127-18-4	Tetrachloroethene	0.5	U
142-28-9	1,3-Dichloropropane	0.5	U
124-48-1	Dibromochloromethane	0.5	U
106-93-4	1,2-Dibromoethane	0.5	U
108-90-7	Chlorobenzene	0.5	U
630-20-6	1,1,1,2-Tetrachloroethane	0.5	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TB-01

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: 70853

Matrix: (soil/water) WATER Lab Sample ID: 70853020

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: V2D1162

Level: (low/med) LOW Date Received: 06/09/00

% Moisture: not dec. _____ Date Analyzed: 06/14/00

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-41-4	Ethylbenzene	0.5	U
136777-61-2	m,p-Xylene	0.5	U
95-47-6	o-Xylene	0.5	U
100-42-5	Styrene	0.5	U
75-25-2	Bromoform	0.5	U
98-82-8	Isopropylbenzene	0.5	U
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U
108-86-1	Bromobenzene	0.5	U
96-18-4	1,2,3-Trichloropropane	0.5	U
103-65-1	n-Propylbenzene	0.5	U
95-49-8	2-Chlorotoluene	0.5	U
108-67-8	1,3,5-Trimethylbenzene	0.5	U
106-43-4	4-Chlorotoluene	0.5	U
98-06-6	tert-Butylbenzene	0.5	U
95-63-6	1,2,4-Trimethylbenzene	0.5	U
135-98-8	sec-Butylbenzene	0.5	U
541-73-1	1,3-Dichlorobenzene	0.5	U
99-87-6	4-Isopropyltoluene	0.5	U
106-46-7	1,4-Dichlorobenzene	0.5	U
104-51-8	n-Butylbenzene	0.5	U
95-50-1	1,2-Dichlorobenzene	0.5	U
96-12-8	1,2-Dibromo-3-chloropropane	0.5	U
120-82-1	1,2,4-Trichlorobenzene	0.5	U
87-68-3	Hexachlorobutadiene	0.5	U
91-20-3	Naphthalene	0.5	U
87-61-6	1,2,3-Trichlorobenzene	0.5	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

TB-01

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: 70853

Matrix: (soil/water) WATER Lab Sample ID: 70853020

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: V2D1162

Level: (low/med) LOW Date Received: 06/09/00

% Moisture: not dec. _____ Date Analyzed: 06/14/00

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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